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OM protein - protein search, using sw model

Run on: April 6, 2005, 13:45:36 ; Search time 66 Seconds
(without alignments)
3306.049 Million cell updates/sec

Title: US-09-916-849A-3
Perfect score: 15545
Sequence: 1 MRSATGVLPTPPPPPLLL.....AGTDEDSGSEFLFFNPLH 2923

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents_AA*
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pap:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1032	6.6	2110	4	US-09-270-767-46547
2	1004.5	6.5	884	2	US-08-465-976A-2
3	1004.5	6.5	884	2	US-08-982-412-2
4	846	5.4	1026	1	US-07-998-003A-95
5	846	5.4	1026	1	US-08-453-274B-95
6	846	5.4	1026	1	US-08-453-695A-95
7	846	5.4	1026	1	US-08-268-161A-95
8	846	5.4	1026	2	US-08-453-702A-95
9	846	5.4	1026	3	PCT-US93-12588-95
10	846	5.4	1026	5	PCT-US95-08071-95
11	846	5.4	1026	5	PCT-US95-08071-95
12	846	5.4	1203	1	US-07-998-003A-103
13	846	5.4	1203	1	US-08-453-274B-103
14	846	5.4	1203	1	US-08-453-695A-103
15	846	5.4	1203	1	US-08-268-161A-103
16	846	5.4	1203	2	US-08-453-702A-103
17	846	5.4	1203	3	US-09-099-639-103
18	846	5.4	1203	5	PCT-US93-12588-103
19	846	5.4	1203	5	PCT-US95-08071-103
20	735.5	4.7	1469	4	US-09-262-537-58
21	727	4.7	1466	4	US-09-262-537-20
22	727	4.7	1471	4	US-08-811-519-1
23	725	4.7	931	4	US-09-949-016-8988
24	719	4.6	1403	4	US-09-262-537-6
25	711.5	4.6	780	4	US-09-262-537-10
26	711.5	4.6	1114	4	US-09-262-537-34
27	711.5	4.6	1177	4	US-09-262-537-2

28	695.5	4.5	923	4	US-09-949-016-8986	Sequence 8986, Ap
29	694.5	4.5	932	4	US-09-949-016-8989	Sequence 8989, Ap
30	693.5	4.5	931	4	US-09-949-016-8987	Sequence 8987, Ap
31	691	4.4	1123	4	US-09-262-537-4	Sequence 4, Appli
32	653	4.2	934	4	US-09-949-016-6242	Sequence 6242, Ap
33	653	4.2	941	4	US-09-949-016-10983	Sequence 10983, A
34	653	4.2	941	4	US-09-949-016-10984	Sequence 10984, A
35	653	4.2	941	4	US-09-949-016-10985	Sequence 10985, A
36	639	4.1	932	4	US-09-949-016-8990	Sequence 8990, Ap
37	629	4.0	846	4	US-09-949-016-10381	Sequence 10381, A
38	628.5	4.0	797	1	US-08-453-695A-112	Sequence 112, App
39	628.5	4.0	797	1	US-08-268-161A-112	Sequence 112, App
40	628.5	4.0	797	2	US-08-453-702A-112	Sequence 112, App
41	628.5	4.0	797	3	US-09-099-639-112	Sequence 112, App
42	628.5	4.0	797	5	PCT-US95-08071-112	Sequence 112, App
43	626	4.0	823	4	US-09-949-016-6852	Sequence 6852, Ap
44	624.5	4.0	787	1	US-08-453-695A-110	Sequence 110, App
45	624.5	4.0	787	1	US-08-268-161A-110	Sequence 110, App

ALIGNMENTS

RESULT 1

US-09-270-767-46547
; Sequence 46547, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270.767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 46547
; LENGTH: 2110
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-46547

Query Match		6.6%	Score 1032;	DB 4;	Length 2110;
Best Local Similarity		27.1%	Pred. No. 2.4e-64;		
Matches 342;		Conservative 162;	Mismatches 486;	Indels 274;	Gaps 29;
Qy	190	VPENOPAGTPVASLRATD-----	PDEGEAGRLTYTMDALFDSRSNOFFSLDPTVG	239	
Db	1	VREDAALGHVVGSIPIERPADVVRNVSVEESFEDLRVTYTLNPLTKDLIEAFDIDRSG	60		
Qy	240	AVTTABELDRKSTHVRVTAQD---HGMPRRSALATLTILVTDNDHDPVFEQOEYKE	296		
Db	61	NLVVARLLDREVQSEFRLEIRALDTTASNPNQSSAI-TVKIEVADVNDNAPWPDPIDL	119		
Qy	297	SLRENLEGVYLVTRATDGDAPPNAILYL-----LEGSGGSPSEVFIDPRSGVIR	350		
Db	120	QVSEATPVGTIIHNFTATDADTGNDLQYRLIRYFPOLNESQEQAMSLFRMDSLTTGALS	179		
Qy	351	TRGPVDRREESYOLTVEASDQGRDPGR-STTAAVFLSVEDDNDNAPQF-----SEKR	403		
Db	180	LQAPLDFEAVQYLLIVQALDQSSNVTERLQTSVTVRILRDANDHAFHIFVSPNSGGKT	239		
Qy	404	YVQVREDVTPGAPVLRVTASDRDKGSNAVHYISMSGNARGQFYLDQTGALDYVSPIL-	462		
Db	240	ASLFISDATRIGEVVAHIVAVDESDGNGQLTYETGTGNGEGRFRINSGTGIIELVKSLP	299		
Qy	463	----DYETTKETTLRVRAQDGRPLSNVSGLVTVQVLDINDNADIPFVSTFPQATVRSV	518		
Db	300	PATEDVEKGRFNLIIGAKDHQOPEPKKSLNLHLIVQSSHNNPPRFLQAVYRATILENV	359		
Qy	519	PLGYLVLHVQAIADADAGDNARLEYRL-AGVGHDPPTINNGTISVAALDRBVDVFS	577		
Db	360	PGSFVLQVTKASLHGAENANLSYEIPAGVANDL-FHVDWQRGIIITTRGQDFRESQSYV	418		

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QY 578 FGVEARDHGTPALTAS-----ASVSVTVLDVNDNNPTQPE 614
Db 419 LPVTVRDANRQSTLSSAVAKRQSSDSIGTNGQHFDAVITITVGDVNDNSPEFRPGS 478
QY 615 -YTVRLNEDAAVGT-SVVTVSAVDRAHSAVITVITQISGNTNRNFSITSSQGGGLVALP 672
Db 479 CYGLSVENSEPGVIHTVVASDLDEGNADLIYSITGNLGNKFSIDSSG---ELSNRP 535
QY 673 LDYKLERQYVLAVTAD-----GTRQDTAQIVNVVTDANTHRPVQSHHYTVNVNEDRPAG 728
Db 536 LDREQHSRYTLIQASDRGPKSRQHCNITIFVEDQNDNAPRFKLSKYTGVSQVEDAPLG 595
QY 729 TTVVLISATDEDTGENARLITYFMEDSIP-QFRDADTGAVTTOAELDYEDOVSYTLAITA 787
Db 596 TSVVQISAVDADLGNARLVYSLANETQWQFAIDGQSGLLITTVGKLDRELQASYNFMVLA 655
QY 788 RDNG-IPQKSDTTYLEILVNDVNDNAPOFLRDSYQGSVYEDVPFPTSVLQISATDRDGL 846
Db 656 TDGGRYEVRSATVPQVQINVLINDNRPIFERYPIGQVPALIQGQTLKVKQALDADLGA 715
QY 847 NGRVFTYFQGGDG-DGDFIVESTSGIVRTLRLDRNVAAQYVLRAYAVDKMPP----- 900
Db 716 NAEIVYSINAENSVAFAKFRINPSTGALSASQSLASESGKLLHLEVVARDKGNPQSSLG 775
QY 901 ----- 900
Db 776 LIBELIGAPQGTPLRFQNETYRVMKENSPPGTRLLQVVALRSDGRQKQVSPGAGN 835
QY 901 ----- 900
Db 836 EDGILSLDSLSEIRVKNPKHLLDYDRFSTPSMSALSRGALHYEEIDESEEDPNNSR 895
QY 901 -----ARTP-----MEVTVTVLDVNDNPPVFQDEFD 927
Db 896 SORALTSSFPALTSQPNIEVRVLVARTADAPFLASVYAEVLIELEDENDNSPKFSQKQV 955
QY 928 VFVENSPIGLAVARTATDDEGTNAQIMQIVEGNIPEVFQLD-IFSGELTALVDLDY 986
Db 956 ATVSEGNKNGTFAVQAHAFDSAGSNARLHYVDGNHDAFVIBPAFSGIVRTNIVLDR 1015
QY 987 EDRPEYLVIOATS---APLVSRTAVHRLDRNDNPPVLGNFEILFNVYVNRSSSPFG 1043
Db 1016 EIRDIYKLIATDEGVPMQTGATIRVQIVDNDNQTFPP-----NNLTVSEATELG 1070
QY 1044 GAIGRPAHPDIPDSLTYSFERGNE-----LSVLVNASGELKSLRALLNRPLEA 1096
Db 1071 AVITSISANDVDTYPALTYRL--GAESTVDIENMSIFALDRYSGLVLRRLDYELQOEY 1128
QY 1097 IMSVLVSDGHSVTAQCALRTIITDEMTHSITRLLEDMSPERP-LSPLLGLFIQAVAA 1155
Db 1129 ELDVIASDAHAERTVLTVRV---NDE--NDNAPVFLAQPPAYFALLPA-----ISEISE 1179
QY 1156 TLATPPDHVVVFNQVORTDA-----PGCHILNVSLSVGQPPGPGG 1196
Db 1180 SLSDVDFLLTVNATDADSEGNNSKVIYIIBPAQGFSPHPSNGVSVNMSRLQPAVSSSG 1239
QY 1197 PPFL 1200
Db 1240 DYFV 1243

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RESULT 2

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US-08-465-976A-2
; Sequence 2, Application US/08465976A
; Patent No. 5869632
; GENERAL INFORMATION:
; APPLICANT: SOPPET, DANIEL R
; APPLICANT: LI, YI
; APPLICANT: ROSEN, CRAIG A
; APPLICANT: RUBEN, STEVEN M
; TITLE OF INVENTION: HUMAN G-PROTEIN RECEPTOR
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:

```

```

; ADDRESSEE: CARELLA, BYRNE, BAIN GILFILLAN, CECCHI
; ADDRESSEE: STEWART & OLSTEIN
; STREET: 6 BECKER FARM ROAD
; CITY: ROSELAND
; STATE: NJ
; COUNTRY: US
; ZIP: 07068
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/465,976A
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: FERRARO, GREGORY F
; REGISTRATION NUMBER: 36,134
; REFERENCE/DOCKET NUMBER: 325800-444
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (201) 994-1700
; TELEFAX: (201) 994-1744
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 884 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-465-976A-2

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Query Match 6.5%; Score 1004.5; DB 2; Length 884;

Best Local Similarity 37.3%; Pred. No. 5.1e-63;

Matches 254; Conservative 103; Mismatches 213; Indels 111; Gaps 20;

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QY 2278 INTPVVSIVHDELLPRALDKPVTVQFRLLTEERTKPICVFNHHSILVSGTGGWSAR 2337
Db 1 MNSPVSVAVPHGRNFRNGILSPISLEFRLLQTNARSKALCVQMDPPLAEQHWGTAR 60
QY 2338 GCEVFRNESHVSCQNMHTSFVLMVDSRRE--NGEILPKLTLYVALGVTLAALLTF 2395
Db 61 DCELVHRNGSHARCSCRTGTGVLMDASPRERLEGLLELLAVFHVVVAVVAALVLA 120
QY 2396 FLTLTLRLRSHQHIRNLTAAQLAQLVFLGQINQADLPACTVIAILLHFLYLCFSS 2455
Db 121 AILLSLRLKSNVRGIHANVAALGVAELLFLLGHRTHNQVLCVTAVAILLHYFLSTFA 180
QY 2456 WALLLEALHLXALTEVRDVTGPMRFYVWMLGWVPAPFITGLAVGLDPGEGNPDFCWLSI 2515
Db 181 WLFVQGLHLXRMQVEPRNVDRGAMRFYHALGNGVPAVLGLAVGLDPGEGNPDFCWLISV 240
QY 2516 YDTLWSFAGPVAVFVMSVFLYILAARASCA-AQRQGFKEKKGPVSGIQLPFAVLLLSA 2574
Db 241 HEPLIWSFAGPVVIVMNGTMFLIAARTSCSTGQREA--KTSALTLRSSFLLILLVSA 298
QY 2575 TWLALLSVNSDTLPHYLFPATCNCIOGPFIFLSVVLVSKVRKALKAC-SRKPSDPA 2633
Db 299 SWLFGLLVNHSILAFHYLHAGLQGLQVILLFCVLNADARAAMWPAACLRKAAPBEA 358
QY 2634 LTTKSTLTSSVNCPSYADGRLYQ-PYGDASGLSHSTSRSGSQP-----SYI--PFL 2683
Db 359 RPAGLPGCAVYNTALPESGLIRITLIGASTVSSVSSARSGRGTQDDQSQRGSYLRDNLV 418
QY 2684 LREESA-----LNPQGQPPGLG-----DPGSLFLEGQQQHHDPDTSDDSLSLEDDQ 2730
Db 419 VRHGSAAADHTDHSLOAHAGPTDLVDVMPHRDAGA-----DSDSDSLSLSEER 466
QY 2731 SCYSASTHSSDSEEEEEEEEAAPFGQGWDSLPGCAERLPLHSTPKDGGPGPKAPW 2790
Db 467 SLISIPSESEDNGRTRGRFQRLCRAGQ-----SERLLTH--PKVDGNDLLSYW 514
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Db 515 PALGCEAAAPCALQWTGSRRLGLDTSKDAANNQDPAL-TSGD-----ETSL-----GRA 565
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Db 566 ORQRKGLKNR-----LQYPLVPQTRGAPELSWCRAATLGHRAVPAASYGRIYA 614
QY 2873 GSRGGPPPPPPRQSLQOLN 2893
Db 615 GGGTGLSQPASRYSSREQLD 635
RESULT 3
US-08-982-412-2
; Sequence 2, Application US/08982412
; Patent No. 5958729
; GENERAL INFORMATION:
; APPLICANT: SOPPET, DANIEL R
; APPLICANT: LI, YI
; APPLICANT: ROSEN, CRAIG A
; APPLICANT: RUBEN, STEVEN M
; TITLE OF INVENTION: HUMAN G-PROTEIN RECEPTOR
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HUMAN GENOME SCIENCES, INC.
; STREET: 9410 KEY WEST AVENUE
; CITY: ROCKVILLE,
; STATE: MD
; COUNTRY: US
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/982,412
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: BROOKES, ANDERS A
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PF181PCT2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8439
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 884 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-982-412-2
Query Match 6.5%; Score 1004.5; DB 2; Length 884;
Best Local Similarity 37.3%; Pred. No. 5.1e-63;
Matches 254; Conservative 103; Mismatches 213; Indels 111; Gaps 20;
QY 2278 INTVPVSVSHDDELLPRALDKPVTVQFRLLETERTKPICVFNHNSILVSGTGWNSAR 2337
Db 1 MNSPVSVAVPHGNFLRGIESPLISLEFRLLQTNRSKALCVQWDPPGLAEQGVWTAR 60
QY 2338 GCEVVRNESHVSCQCNHMTSPAVLMDVSRRE--NGEILPLKLTLYVALGVTLAALLTF 2395
Db 61 DCELVHRNGSHARCRCSTGTFTGVLMDSAPRERLEGLDELLAVFTHVVVAVSVAALVLT 120
QY 2396 FFLLRLRLRNQHGIRNLTAAAGLAQLVFLGINQADLPACTVIAILLHFLYCLTFS 2455
Db 121 AILLSLRLSKNGVGHANVAALGVABELFLGLHTRHNLQVCTAVAILLHFFLSTFA 180
QY 2456 WALLLEALHLYALTEVRDVTGPMRFYVYMLGWPVAFITGLAVGLDPRGYNPDPCWLSI 2515
Db 181 WLFVQGLHLYRQVEPRNVDRGMRFYHALGWPVAVLLGLAVGLDPRGYNPDPCWLSV 240

QY 2516 YDTLWSPAGPVAFVMSVFLYLILAAARASCA-AORQGFKEKGPVSGLOPSPAVILLLSA 2574
Db 241 HEPLIWSFAGPVVLIVVMGTWFLIARTSCSTGOREA--KKTSAITLRSFLLLLLSA 298
QY 2575 TWLLALLSVNSDTLLFHYLPATCNCIOGPPIFLSVVLSKEVRKALKLAC-SRKPSPPDA 2633
Db 299 SWLFGLLAVNHSILAFHYLHAGLCGLQGLAVILLFCVLNADARAAMFACLGKKAPEEA 358
QY 2634 LTTKSTLTSSYNCPSPYADGRLYQ-PYGDSAGSLHSTSRGKSQP-----SYI--PPL 2683
Db 359 RPAPGLGPGAYNTALFEESGLIRITLIGASTVSSVSARSGRGTQDDQSGRGSYLURDNVL 418
QY 2684 LREESA-----LNPQGPPLG-----DPGSLFLEGQDQDHPDTSDSLSDDDQ 2730
Db 419 VRHGAADHTDHSLOAHAGPTDLVDVMEFRDAGA-----DSDSDSLSEBER 466
QY 2731 SGVSASTHSSDSEEEEEEEEAAPPGSGWDSLPGCAERLPLHSTPKDGGPGGKAPW 2790
Db 467 SLSPSSESEDNGTRGRFQPLCEAGQ-----SERLLTH--PDVDGNDLLSYW 514
QY 2791 PG-----DFGT-----TAKESGNGAPEERLRENGDALSRGSLGPLGSS 2831
Db 515 PALGCEAAAPCALQWTGSRRLGLDTSKDAANNQDPAL-TSGD-----ETSL-----GRA 565
QY 2832 AOPHGILKKKCLPTISEKSSLLRLP-----LEQCTGSSRGSSA-----SE 2872
Db 566 ORQRKGLKNR-----LQYPLVPQTRGAPELSWCRAATLGHRAVPAASYGRIYA 614
QY 2873 GSRGGPPPPPPRQSLQOLN 2893
Db 615 GGGTGLSQPASRYSSREQLD 635
RESULT 4
US-07-998-003A-95
; Sequence 95, Application US/07998003A
; Patent No. 5643781
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; ADDRESSEE: Bicknell
; STREET: 20 South Clark Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/998,003A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5643781and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 30903
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/346-5750
; TELEFAX: 312/984-9740
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 95:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1026 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-998-003A-95

Db 612 QVQLSV---EQDNGDFVIQNGTGTSLSSLDREQQSTYTFQLKAVDGVPPRSAYGVGT 668
Qy 909 VTLDVNDNPPVF--EQDEFDFVFEENSPIGLAVARVTATDPDEGTNAQIMYQIVEGNIP 966
Db 669 INVLDENDNAPYITAPSNSTSHKLLTPQRLGETVSVQAAEDFDSGVNAELIYIAGGNPY 728
Qy 967 EVFQDIFPSGELTALVDLYEDREPEYVLVIQATSAPLVSRATVHRLDRNDNPPVLGN- 1025
Db 729 GLFQIGSHGSAITLLEKEIERHHGLHLRV-----VKVSDRG-KPPRYGTA 772
Qy 1026 -FEILFNYYVNRSSSPFGGAIGRPAH-----DPDISDSLTY--SPERGNEI 1070
Db 773 LVHLYVNETLANRI-----LLETLLGHSLDTPLDIDAGDPYERSKQRGNIL 820
RESULT 6
US-08-453-695A-95
; Sequence 95, Application US/08453695A
; Patent No. 5708143
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 115
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; ADDRESS: Borun
; STREET: 233 South Wacker, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/453,695A
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5708143and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 32658
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 95:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1026 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-453-695A-95
Query Match 5.4%; Score 846; DB 1; Length 1026;
Best Local Similarity 29.1%; Pred. No. 1.7e-51;
Matches 243; Conservative 131; Mismatches 346; Indels 114; Gaps 24;
Qy 305 GYEVLTVRATDGDAPPNANI-----LYRLLEGSGGSPSEVFIEDPRSG-VI 349
Db 33 GHATRVVYKVEEQPPNTLIGSLAADYGFDPVGHLYKLEVG-----APYLAVDGTGDIIF 87
Qy 350 RTRGPDVDEEVESVQ-----LTVASDQGRDPGRSTTAAPVLSVEDDNDNAPQ 398
Db 88 TTETSIDREGRECONQLPGDPCILEFEVSITDLVQNASPRLLBQI--EVQDINDNTPN 145
Qy 399 FSEKRYVQVREDVTPGAPVLRTVATASDRKSGNAVHYISMSGNARGQFYLDAGTGLDV 458
Db 146 FASPVITLAIPTNWTIGSLFFPIPLASDRDAGPNGVASYELOVAEDQ-----EEKQQLIV 200

Qy 459 VSPLDYETTKETYLURVRAQDGGRRPLSNVSGSLVTQVLDINDNAPIFVSTFPQATVLESV 518
Db 201 MGNLDRWRPISYDITIKVQDGGSPRA--TSALLFVTVLDTNDNAPKFERPSELSNS 259
Qy 519 PLGLVVLHQAIDADAGNARLEYRLAGVGHDFP-----FTINNGTCWISVAAELDREE 572
Db 260 FIGHSVLOKXANDSQQANAEIETFF---HQAEVVRLLRLDRNTGLIIVQCPVDRED 315
Qy 573 VDFSVFGVEARDHGTGTPALTASASVTVLVDVNDNPTF-----TOPEYTVRLNDA 624
Db 316 LSTLRFSLAKDRGTNPKSARAQVVTVKMDNDNAPTIEIRGIGLVTHQDGMANISEDVA 375
Qy 625 VGTSVTVTVSAVDRD--AHSVITYTQITSGNTRRSITSQSGG-----LVSIALPLDYKL 677
Db 376 BETAVALLVQVSDRDEGENAAVTC--VWAGDVPFQLRQASSETGSDSKKKYFLQTTPLDYEK 434
Qy 678 EROYVLAVTASDGTFR---QDTAQIVNVNVDANTHRPVFQSHYTVNVNEDRPAGTIVVLI 734
Db 435 VKDYIEIVAVDSGNPPLSSTNSLKQVVDVNDNAPVFTQSVTEVAFENNKPGEVIAEI 494
Qy 735 SATDEDTGENARITYFMEDSIQ-----FRIDADTCAVTTQAELEDVEDQVSYTLAITAR 788
Db 495 TASDADSGSNAELVYSLE--PEPAAGLFTISPETGEIQVKTSLDREQRESYELKVVA 551
Qy 789 DNGIPQKSDTYLLEILVNDVNDNAPQLRDSYQSGVYEDVPPFTSVLQISATDRDSGLNG 848
Db 552 DRGSPSLQGTATVLNVLDNCNDNPKFMLSYNFVSMENMPALSPVGMVTVIDGDKGENA 611
Qy 849 RVFTYFGDGDGDFIVESTGIVRTLRLRLDRNENVAQVYLRAVADKMPPARTPMBVT 908
Db 612 QVQLSV---EQDNGDFVIQNGTGTSLSSLDREQQSTYTFQLKAVDGVPPRSAYGVGT 668
Qy 909 VTLDVNDNPPVF--EQDEFDFVFEENSPIGLAVARVTATDPDEGTNAQIMYQIVEGNIP 966
Db 669 INVLDENDNAPYITAPSNSTSHKLLTPQRLGETVSVQAAEDFDSGVNAELIYIAGGNPY 728
Qy 967 EVFQDIFPSGELTALVDLYEDREPEYVLVIQATSAPLVSRATVHRLDRNDNPPVLGN- 1025
Db 729 GLFQIGSHGSAITLLEKEIERHHGLHLRV-----VKVSDRG-KPPRYGTA 772
Qy 1026 -FEILFNYYVNRSSSPFGGAIGRPAH-----DPDISDSLTY--SPERGNEI 1070
Db 773 LVHLYVNETLANRI-----LLETLLGHSLDTPLDIDAGDPYERSKQRGNIL 820
RESULT 7
US-08-268-161A-95
; Sequence 95, Application US/08268161A
; Patent No. 5798224
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 115
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; ADDRESS: Borun
; STREET: 233 South Wacker, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/268,161A
; FILING DATE: June 27, 1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Young J. Suh
; REGISTRATION NUMBER: P-41,337


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; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/12588
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/998,003
; FILING DATE: 29 DEC 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Noland, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 31811
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 95:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1026 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; PCT-US93-12588-95

Query Match 5.4%; Score 846; DB 5; Length 1026;
Best Local Similarity 29.1%; Pred. No. 1.7e-51;
Matches 243; Conservative 131; Mismatches 346; Indels 114; Gaps 24;

QY 305 GYEVLTVRATDGDAPPNANI-----LYRLLEGSGSPSEVEIDPRSG-VI 349
DB 33 GHATRVVYKVPPEQPPNTLIGSLAADYGPDPVGHLYKLEVG-----APYLRVDGKTGDI 87
QY 350 RTRGPDVREEVESYQ-----LTVRASDQGRDPPRSTTAAVFLSVEDNDNAPQ 398
DB 88 TTETSIDREGLRECONQLPGDPCILEFEVSTIDLVQNASPLLEGQI--EVQDINDNTPN 145
QY 399 FSEKRYVVOVDVTPGAPVLRTASDRDGSNAVHYISMGVARGQFYLDATQALDV 458
DB 146 FASPVTILAIPTENTNIGSLFPIPLASDRDAGPNGVASVELQVADQ-----BEKQPQ 200
QY 459 VSPDYETTKYTLRVAQDGRPLNSVGLVTVQVLDINDNAPIFVSTPFOATVLESV 518
DB 201 MGNLDREWDSDYDITIKVQDGGSPRA--TSALLRVTVLDINDNAPKFRPSYEAELSENS 259
QY 519 PLGYLVLVHQAIDADAGNARLEYRLAGVGHDFP-----FTNNGTGWISVAEALDREE 572
DB 260 PIGHSVIQVKANDSDQGANAEIYTF-----HQAPEVVRLLRLDRNTGLITVQGPVDRED 315
QY 573 VDFISFGVEARDHGTPTALTASASVTVLDVNDNPTF-----TQPEYTVRLNEDAA 624
DB 316 LSTLRFSLAKDRGTNPKSARAQVTVVKOMNDNAPTIBIRIGLVTHQDGMANISDVA 375
QY 625 VGTSVTVTVSADRD--AHSVITYOI TSGNTRNRESITSQSGG-----LVSLALPLDYKL 677
DB 376 BETVALVQVSDREGENAVTC--VWAGDVPFQURQASSETGSGSKKQYFLOTTPLDYEK 434
QY 678 ERQYVLAVTASDGTGR---QDTAQIVNVNVTANTHRPVFQSSHVTVNVNEDRPAAGTTVLI 734
DB 435 VKDYTVIEIVADSGNPPLSLNSLVQVVDVNDNAPVFTQSVTEVAFPPENKPEGVEIAEI 494
QY 735 SATBEDTCENARIYTFMEDSIPO-----FRIDADTGAVTQAEALYDQVSVTLAITAR 798
DB 495 TASDADSGSNABLVYSLF---PEPAAKGLFTISPETGEI QVKTSLDREQRESYELKVAA 551
QY 789 DNGIPQKSDTTYLETLVNDVNDNAPQFLRDSYQGSVYEDVPPFTSVLIQISATDRDGLNG 848
;
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/12588
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/998,003
; FILING DATE: 29 DEC 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Noland, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 31811
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 95:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1026 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; PCT-US93-12588-95

; Sequence 95, Application PC/TUS9508071
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 115
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; ADDRESS: Borun
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/08071
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/12588
; FILING DATE: 23 DEC 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/998,003
; FILING DATE: 29 DEC 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Noland, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 32149
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 95:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1026 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; PCT-US95-08071-95

Query Match 5.4%; Score 846; DB 5; Length 1026;
Best Local Similarity 29.1%; Pred. No. 1.7e-51;
Matches 243; Conservative 131; Mismatches 346; Indels 114; Gaps 24;

QY 305 GYEVLTVRATDGDAPPNANI-----LYRLLEGSGSPSEVEIDPRSG-VI 349
DB 33 GHATRVVYKVPPEQPPNTLIGSLAADYGPDPVGHLYKLEVG-----APYLRVDGKTGDI 87

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Qy 350 RTRGPDREEVESVQ-----LTVEASDQGRDGPSTTAAVFLSVEDDNDNAPQ 398
Db 88 TTETSIDREGLRECONQLPGDCILEFEVSTIDLVQNASPRLLEQI--EVQDINDNTPN 145
Qy 399 FSEKRYVQVQREDVTPGAPVLRTVATSDRDKGSNAVVHYSIMSGNARGQFYLDADQALDV 458
Db 146 FASPVITLAIPTENTNIGSLFPIPLASDRDAGNGVASVELQVAEDQ-----EERQPOLIV 200
Qy 459 VSPLDYETTKYTLRVRAQDGRPLSNVSGLVTVQVLDINDNAPIFVSTPFPQATVLESV 518
Db 201 MGNLDRERWSDYDLTIKVQDGGSPRA--TSALLRVTVLTDNDNAPKFRPSPYEAELESENS 259
Qy 519 PLGVILVHVQALDADAGNARLEYRLAGVGHDFP-----FTINNGTCMISVAEELDEE 572
Db 260 PIGHSVIOVKANDSDQGANAEIETFF---HOAPEVVRLLRLDRNTGLITVQGPVDRED 315
Qy 573 VDFYSGVEARDHGTGTPALTASASVTVLVDVNDNPTF-----TOPEYTVRLNEDAA 624
Db 316 LSTLRFSLAKDRGTNPKSARAQVVTVKMDNDNAPTIEIRGIGLVTHQDGMANISEDVA 375
Qy 625 VGTSVVTVSAVDRD--AHSVITYQITSGNTRNRFSITSQSGG-----LVSLALPLDYKL 677
Db 376 EETAVALVQVSDRDEGENAAVTC--VWAGDVPFQLRQASSETGDSKCKYFLQTTTPLDYEK 434
Qy 678 ERQYVLAVTASDGTFR--QDTAQIVVNVVTDANTHRPVFQSSHYYTVNVNEDRPAGTTVLI 734
Db 435 VKDYTIIEIVADVSGNPPLSTNSLKVQVVDVNDNAPVFTQSVTEVAFEPENKNGPGEVIAEI 494
Qy 735 SATDEDTGENARITYFMEDSIPQ-----FRIDADTGAVTTQAEILDVEDQVSYTLAITAR 788
Db 495 TASDADSGSNAELVYSLE---PEPAKGLFTISPETGEIQVKTSLDRQRESYELKVAA 551
Qy 789 DNGIPQKSDTTYLLEILVNDVNDNAPQFLRDSYQGSVYEDVPFTTSVLQISATDRDGLNG 848
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Qy 849 RVFTYFGGDDGDDGFVVESTSGIVRTLRLDRNVAQVYLRAVADKGMPPARTPMEVT 908
Db 612 QVQLSV---EQDNGDFVIQNGTGTILSLSPDREQQSTYTFPQLKAVDGVGPVPSAYVGT 668
Qy 909 VTVLVDVNDNPPVF--EODEPFDVFEENSPIGLAVARTATDPDDEGTNAQIMVQIVEGNIP 966
Db 669 INVLDENDNAPYITAPNTSHKLTTPQTRLGETVSVQAAEDFDSGVNAELIYSTAGNPY 728
Qy 967 EVFQDIPSGBLTALVDYDRPEYVLVIOATSAPLVSRATVHVRLDRNDNPPVLGN- 1025
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Qy 1026 -FEILFNNTNRSSSPGGAIGRVPAR-----DPDISDSLTY--SPERGNEI 1070
Db 773 LVHLYVNETLANRT-----LLETLLGHSLDTPLDIDAGDPEYERSKQRGNIL 820
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RESULT 12

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US-07-998-003A-103
; Sequence 103, Application US/07998003A
; Patent No. 5643781
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; ADDRESSEE: Bicknell
; STREET: 20 South Clark Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
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; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/998.003A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5643781and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 30903
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/346-5750
; TELEFAX: 312/984-9740
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 103:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1203 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-998-003A-103
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Query Match 5.4%, Score 846; DB 1; Length 1203;
Best Local Similarity 29.1%; Pred. No. 2.3e-51;
Matches 243; Conservative 131; Mismatches 346; Indels 114; Gaps 24;
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Qy 305 GYEVLTVRATDGDAPPNANI-----LYRLLEGSGSPSEVFEIDPRSG-VI 349
Db 33 GHATRVVYKVPPEQPNTLIGSLAADYGFDPVGHLYKLEVG-----APYLRVDGKTGDI 87
Qy 350 RTRGPDREEVESVQ-----LTVEASDQGRDGPSTTAAVFLSVEDDNDNAPQ 398
Db 88 TTETSIDREGLRECONQLPGDCILEFEVSTIDLVQNASPRLLEQI--EVQDINDNTPN 145
Qy 399 FSEKRYVQVQREDVTPGAPVLRTVATSDRDKGSNAVVHYSIMSGNARGQFYLDADQALDV 458
Db 146 FASPVITLAIPTENTNIGSLFPIPLASDRDAGNGVASVELQVAEDQ-----EERQPOLIV 200
Qy 459 VSPLDYETTKYTLRVRAQDGRPLSNVSGLVTVQVLDINDNAPIFVSTPFPQATVLESV 518
Db 201 MGNLDRERWSDYDLTIKVQDGGSPRA--TSALLRVTVLTDNDNAPKFRPSPYEAELESENS 259
Qy 519 PLGVILVHVQALDADAGNARLEYRLAGVGHDFP-----FTINNGTCMISVAEELDEE 572
Db 260 PIGHSVIOVKANDSDQGANAEIETFF---HOAPEVVRLLRLDRNTGLITVQGPVDRED 315
Qy 573 VDFYSGVEARDHGTGTPALTASASVTVLVDVNDNPTF-----TOPEYTVRLNEDAA 624
Db 316 LSTLRFSLAKDRGTNPKSARAQVVTVKMDNDNAPTIEIRGIGLVTHQDGMANISEDVA 375
Qy 625 VGTSVVTVSAVDRD--AHSVITYQITSGNTRNRFSITSQSGG-----LVSLALPLDYKL 677
Db 376 EETAVALVQVSDRDEGENAAVTC--VWAGDVPFQLRQASSETGDSKCKYFLQTTTPLDYEK 434
Qy 678 ERQYVLAVTASDGTFR--QDTAQIVVNVVTDANTHRPVFQSSHYYTVNVNEDRPAGTTVLI 734
Db 435 VKDYTIIEIVADVSGNPPLSTNSLKVQVVDVNDNAPVFTQSVTEVAFEPENKNGPGEVIAEI 494
Qy 735 SATDEDTGENARITYFMEDSIPQ-----FRIDADTGAVTTQAEILDVEDQVSYTLAITAR 788
Db 495 TASDADSGSNAELVYSLE---PEPAKGLFTISPETGEIQVKTSLDRQRESYELKVAA 551
Qy 789 DNGIPQKSDTTYLLEILVNDVNDNAPQFLRDSYQGSVYEDVPFTTSVLQISATDRDGLNG 848
Db 552 DRGSFSLQGTATVLNVVLDNCNDNDPKFMLSXNFVSMENMPALSPVGMVTVIDGDKGENA 611
Qy 849 RVFTYFGGDDGDDGFVVESTSGIVRTLRLDRNVAQVYLRAVADKGMPPARTPMEVT 908
Db 612 QVQLSV---EQDNGDFVIQNGTGTILSLSPDREQQSTYTFPQLKAVDGVGPVPSAYVGT 668
Qy 909 VTVLVDVNDNPPVF--EODEPFDVFEENSPIGLAVARTATDPDDEGTNAQIMVQIVEGNIP 966
Db 669 INVLDENDNAPYITAPNTSHKLTTPQTRLGETVSVQAAEDFDSGVNAELIYSTAGNPY 728
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QY 967 EVFOLDIFSGELTALVDLYEDREYVLTQATSAPLVSRATVHVRLLRNDNDPPVLGN- 1025
 Db 729 GLFOIGSHGSAITLLEKRIERRHGLRLV-----VKVSDRG-KPPRYGTA 772
 QY 1026 -FEILFNYYVNRSSPPGGAIGRVPAH-----DPDISDLSLY--SFERGNEL 1070
 Db 773 LVHLYVNETLANRT-----LLETLLGHSLDTPDIDDIAGDPEYERSKQGNIL 820

RESULT 13
 US-08-453-274B-103
 ; Sequence 103, Application US/08453274B
 ; Patent No. 5663300
 ; GENERAL INFORMATION:
 ; APPLICANT: Suzuki, Shintaro
 ; TITLE OF INVENTION: Protocadherin Materials and Methods
 ; NUMBER OF SEQUENCES: 107
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
 ; STREET: 6300 Sears Tower, 233 South Wacker Drive
 ; CITY: Chicago
 ; STATE: Illinois
 ; COUNTRY: United States of America
 ; ZIP: 60606-6402
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/453,274B
 ; FILING DATE: 30-MAY-1995
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: No. 5663300and, Greta E.
 ; REGISTRATION NUMBER: 35,302
 ; REFERENCE/DOCKET NUMBER: 32660
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 312/474-6300
 ; TELEFAX: 312/474-0448
 ; TELEX: 25-3856
 ; INFORMATION FOR SEQ ID NO: 103:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1203 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-453-274B-103

Query Match 5.4%; Score 846; DB 1; Length 1203;
 Best Local Similarity 29.1%; Pred. No. 2.3e-51;
 Matches 243; Conservative 131; Mismatches 346; Indels 114; Gaps 24;

QY 305 GYEVLTVRATDGDAPPNANI-----LYRLLEGSGSPSEVFEDIDPRSG-VI 349
 Db 33 GHATRVYKYPEEQPNYTLIGSLAADYFPDVGHLKYLEVG-----APYLRVDGKTGDI 87
 QY 350 KTRGPVDRVEVSYQ-----LTVASDQGRDPGRSTTAAVFLSVEDNDNAPQ 398
 Db 88 TTETSIDREGUREQONQPGPCILEFEVSTDLVQNASPLLEGQI--EVQDINDNTPN 145
 QY 399 FSEKRYVQVREDYTPGAPVLRTVTSARDKSGSNVHVSIMSGNARGQFVLDATGALDV 458
 Db 146 FASPVTILAIPTNNTIGSLFPIPLASDRDAGPNGVASYLEQVAEDQ-----SEKQOLIV 200
 QY 459 VSPLDYETTKYTLRVAQDGRPLNSVGLVTVQVLDINDNAPIFVSTPFOATVLESV 518
 Db 201 MGNLDRWDSYDLTIKIVQDGSPPRA-TSALLRVTVLDINDNAPKPERESYEAELENS 259
 QY 519 PLGYLVHLVQAIDADAGNARLEVRLAGVGHDFP-----FTINGTGWISVAEADREE 572
 Db 260 PIGHSVIQKANDSDQGANABIEYTF---HQAPEVVVRLRLRLDRNTGLITVQGPVDRD 315
 QY 573 VDFYSFGVEARDHGTTPALITASASVSTVLDVNDNNPTF-----TQPEYTVRLNEDAA 624

Db 316 LSLRFSVLAKDRGNTNPKSARAQVVVTVKMDNDNAPTIEIRGILGLVTHDGMANISDVA 375
 QY 625 VGTSVTVSAVDRD--AHSVITYQITSGNTRNRFISITSSQGGG-----LVSLALPIDYKL 677
 Db 376 EETAVLVQVSDRDEGENAAVTC-VVAGDVPFQLRQASSETGSDSKKCYFLQTTPLDYEK 434
 QY 678 ERQYVLAVTASDGR---QDTAQIVVNVNTDANTHRPVFQSSHYTVNVNDRPAGTIVVLI 734
 Db 435 VKDYTIEIVAVDSGNPPLSSTNSLKQVVDVNDNAPVFTQSVTEVAFPPENKPKGEVIAEI 494
 QY 735 SATDEDTGENARITYFMEDSIPQ-----FRIDADTGAVTTQAEALDYEDQVSYTLAITAR 788
 Db 495 TASDADSGSNAELVYSLE---PEPAKGLFTISPETGEIQVKTSLDREQRESYELKVAA 551
 QY 789 DNGIPQKSDTTYLLEILVNDVNDNAPQLRDSYQGSVYEDVPPFTSVLQISATBDSGLNG 848
 Db 552 DRGSPSLQGTATVLVNVLDNDNDPKFMLSCTYNSVNMENPALSVPVGMVTVIDGDKGENA 611
 QY 849 RVFYTFQGGDDGDFIVESTGIVRTLRRLRDRENVAAQYVLRAYAVDKGMPPARTPMEVT 908
 Db 612 QVQLSV---EQDNGDFVIQNGTGILSLSPDREQQSTYTFQLKAVDGGVPPRSAYGVGT 668
 QY 909 VTVLVDVNDNPPVF--EQDEFDFVFEENSPICGLAVARTATDPDEGTNAQIMYQIVEGNIP 966
 Db 669 INVLDENDNAPYITAPSNVTSKLLTPQTRLGETVSQVAEEDFDSGVNAELIYSIAGNPNY 728
 QY 967 EVFQDIPSGELTALVDLYEDREYVLTQATSAPLVSRATVHVRLLRNDNDPPVLGN- 1025
 Db 729 GLFOIGSHGSAITLLEKRIERRHGLRLV-----VKVSDRG-KPPRYGTA 772
 QY 1026 -FEILFNYYVNRSSPPGGAIGRVPAH-----DPDISDLSLY--SFERGNEL 1070
 Db 773 LVHLYVNETLANRT-----LLETLLGHSLDTPDIDDIAGDPEYERSKQGNIL 820

RESULT 14
 US-08-453-695A-103
 ; Sequence 103, Application US/08453695A
 ; Patent No. 5708143
 ; GENERAL INFORMATION:
 ; APPLICANT: Suzuki, Shintaro
 ; TITLE OF INVENTION: Protocadherin Materials and Methods
 ; NUMBER OF SEQUENCES: 115
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
 ; STREET: 233 South Wacker, 6300 Sears Tower
 ; CITY: Chicago
 ; STATE: Illinois
 ; COUNTRY: USA
 ; ZIP: 60606
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/453,695A
 ; FILING DATE:
 ; CLASSIFICATION: 530
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: No. 5708143and, Greta E.
 ; REGISTRATION NUMBER: 35,302
 ; REFERENCE/DOCKET NUMBER: 32658
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 312/474-6300
 ; TELEFAX: 312/474-0448
 ; TELEX: 25-3856
 ; INFORMATION FOR SEQ ID NO: 103:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1203 amino acids
 ; TYPE: amino acid

```

; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-453-695A-103

Query Match      5.4%; Score 846; DB 1; Length 1203;
Best Local Similarity 29.1%; Pred. No. 2.3e-51;
Matches 243; Conservative 131; Mismatches 346; Indels 114; Gaps 24;

Qy 305 GYEVLTVRATDGDAPPNANI-----LYRLLEGSGSPSEVFIDPRSG-VI 349
Db 33 GHATRVVVKVPEEQPNTLIGSLAADYGFDPVGHLYKLEVG-----APYLRVDGKTGDI 87
Qy 350 RTRGPDVDEEVSYQ-----LTVEASDQDRDPGPRSTTAAVPSLVSDDDNDNAPQ 398
Db 88 TTETSIDREGLRECONQLPGPCILEFEVSTIDLVQNAPSLLEGQI--EVQDINDNTPN 145
Qy 399 FSEKRYVQVQREDVTPGAPVLRTASDRDKSGNAVHVYSIMSGNARGQFYLDAGTALDV 458
Db 146 PASPVITLAIPTENTNIGSLFPIPLASDRDAGPVGASVELQVAEDQ-----EEKQPQLIV 200
Qy 459 VSPLDYETTKETTLRVAQDGRPPLSNVSGLVTVQVLDINDNAPIFVSTPQATVLESV 518
Db 201 MGNLDRERWDSYDLTIKVQDGGSPRA--TSALLRVTVLTDNDNAPKPERPSEAELESENS 259
Qy 519 PLGLVLVHVQALDADAGNARLEYRLAGVGHDFP-----FTINNGTGWISVAEELDREE 572
Db 260 PIGHSVIQVKANDSDQGANAEIETFTF---HQAPEVVRRLRLDRNTGLITVQGPVDRED 315
Qy 573 VDFYSFGVEARDHGTGTPALRTASASVTVLDVNDNPTF-----TQPEYTVRLNEDAA 624
Db 316 LSTLRFSLVAKDRGTNPKSARAQVVTVKMDNDNAPTIEIRGIGLVTHQDGMANISEDA 375
Qy 625 VGTSVVTVSAVDRL--AHSVITYQITSGNTRNRFISITSSQGG-----LVSLALPLDYKL 677
Db 376 EETAVALVQVSDRDEGENAAVTC--VWAGDVPFQLRQASSETGSKCKYFLQTTPLDYEK 434
Qy 678 ERQVVLAVTASDGR---QDTAQIVVNTDANTHRPVSQSHYTVNVEDRPGTIVVLI 734
Db 435 VKDYTIEIVAVDSGNPPLSLSTNSLKQVVDVNDNAPVFTQSVTEVAFPENNKPGEVIAEI 494
Qy 735 SATDEDTGENARITYFMEDSIPO-----FRIDADTGAVTTCQAEILDYEDOVSYTLAITAR 788
Db 495 TASDADSGSNALVLSLE---PEPAKGLFTISPETGEIQVKTSLDREQRSYELKVVA 551
Qy 789 DNGIPQKSDTTYLETLVNDVNDNAPQFLRDSYQSGSVYEDVPPFTSVLQISATDRDGLNG 848
Db 552 DRGSPSLOGTATLVNLVNDNDKNDPKFMLSQYNSVNMENPALSFGVMTVIDGKGENA 611
Qy 849 RVFTYFQGGDGDGFIVESTSGIVRTLRLRDRENAQYVLRVAVDKGMPAPPTMEVT 908
Db 612 QVQLSV---EQDNGDFVIQNGTGITLSSLSFDRQQSTYTPQLKAVDGGVPPRSAYVGT 668
Qy 909 VTVLVDNDNPPVF--EQDEFVFEENSPIGLAVARVTATPDDEGTNAQIMQVVEGNIP 966
Db 669 INVLDENDNAPYITAPNSTSHKLTPTQRLGETVSQAAEDFDSGVNAELIYSIAGGNPY 728
Qy 967 EVFQIDFSGELTALVDLYDRDEYVLVIQATSAPLVSRATVHRLDRDNDNPPVLCN- 1025
Db 729 GLFQIGSHSGAITLEKEIRRHGLRLV-----VKVSDRG-KPFRYGA 772
Qy 1026 -FEILFNMYTVNRSSSPFGGAIGRPVPAH-----DPDISDSLT--SPERGNEL 1070
Db 773 LVHLYVNETLANRT-----LLETILGHSLDTPLDIDAGDPEYERSKQRGNIL 820

RESULT 15
US-08-268-161A-103
; Sequence 103, Application US/08268161A
; Patent No. 5798224
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 115

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; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; ADDRESSEE: Borun
; STREET: 233 South Wacker, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/268,161A
; FILING DATE: June 27, 1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Young J. Suh
; REGISTRATION NUMBER: P-41,337
; REFERENCE/DOCKET NUMBER: 27866/32149
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 103:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1203 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-268-161A-103

Query Match      5.4%; Score 846; DB 1; Length 1203;
Best Local Similarity 29.1%; Pred. No. 2.3e-51;
Matches 243; Conservative 131; Mismatches 346; Indels 114; Gaps 24;

Qy 305 GYEVLTVRATDGDAPPNANI-----LYRLLEGSGSPSEVFIDPRSG-VI 349
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Qy 350 RTRGPDVDEEVSYQ-----LTVEASDQDRDPGPRSTTAAVPSLVSDDDNDNAPQ 398
Db 88 TTETSIDREGLRECONQLPGPCILEFEVSTIDLVQNAPSLLEGQI--EVQDINDNTPN 145
Qy 399 FSEKRYVQVQREDVTPGAPVLRTASDRDKSGNAVHVYSIMSGNARGQFYLDAGTALDV 458
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Db 201 MGNLDRERWDSYDLTIKVQDGGSPRA--TSALLRVTVLTDNDNAPKPERPSEAELESENS 259
Qy 519 PLGLVLVHVQALDADAGNARLEYRLAGVGHDFP-----FTINNGTGWISVAEELDREE 572
Db 260 PIGHSVIQVKANDSDQGANAEIETFTF---HQAPEVVRRLRLDRNTGLITVQGPVDRED 315
Qy 573 VDFYSFGVEARDHGTGTPALRTASASVTVLDVNDNPTF-----TQPEYTVRLNEDAA 624
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Qy 678 ERQVVLAVTASDGR---QDTAQIVVNTDANTHRPVSQSHYTVNVEDRPGTIVVLI 734
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Db 729 GLFQIGSHSGAITLEKEIRRHGLRLV-----VKVSDRG-KPFRYGA 772
Qy 1026 -FEILFNMYTVNRSSSPFGGAIGRPVPAH-----DPDISDSLT--SPERGNEL 1070
Db 773 LVHLYVNETLANRT-----LLETILGHSLDTPLDIDAGDPEYERSKQRGNIL 820

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OM protein - protein search, using sw model

Run on: April 6, 2005, 13:55:11 ; Search time 250 Seconds
(without alignments)
3881.712 Million cell updates/sec

Title: US-09-916-849A-3

Perfect score: 15545

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Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1418010 seqs, 331997259 residues

Total number of hits satisfying chosen parameters: 1418010

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Published Applications AA:*

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- 20: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	15545	100.0	2923	9 US-09-788-711A-4	Sequence 4, Appli
2	15545	100.0	2923	10 US-09-916-849A-3	Sequence 3, Appli
3	15545	100.0	2923	14 US-10-225-567A-524	Sequence 524, App
4	15545	100.0	2923	14 US-10-174-677-29	Sequence 29, Appl
5	15545	100.0	2923	15 US-10-120-801-53	Sequence 53, Appl
6	15545	100.0	2923	15 US-10-292-798-932	Sequence 932, App
7	15545	100.0	2923	15 US-10-038-854-70	Sequence 70, Appl
8	15518.5	99.8	2956	9 US-09-788-711A-2	Sequence 2, Appli
9	15279	98.3	2936	15 US-10-311-623-9	Sequence 9, Appli
10	14647.5	94.2	2920	15 US-10-038-854-71	Sequence 71, Appl
11	13406	86.2	2560	15 US-10-276-774-1774	Sequence 1774, Ap
12	8974.5	57.7	3034	9 US-10-737-149-25	Sequence 25, Appl
13	8974.5	57.7	3034	9 US-09-737-149-30	Sequence 30, Appl

14	8974.5	57.7	3034	14	US-10-131-409-70	Sequence 70, Appl
15	8974.5	57.7	3034	15	US-10-139-854-70	Sequence 70, Appl
16	8974.5	57.7	3034	15	US-10-120-801-52	Sequence 52, Appl
17	8974.5	57.7	3034	15	US-10-150-813-70	Sequence 70, Appl
18	8974.5	57.7	3034	15	US-10-150-811-70	Sequence 70, Appl
19	8974.5	57.7	3034	15	US-10-701-283-25	Sequence 25, Appl
20	8974.5	57.7	3034	15	US-10-701-283-30	Sequence 30, Appl
21	8754	56.3	3014	9	US-09-737-149-2	Sequence 2, Appli
22	8754	56.3	3014	14	US-10-225-567A-444	Sequence 444, App
23	8754	56.3	3014	14	US-10-241-220-107	Sequence 107, App
24	8754	56.3	3014	14	US-10-174-677-77	Sequence 77, Appl
25	8754	56.3	3014	15	US-10-295-027-750	Sequence 750, App
26	8754	56.3	3014	15	US-10-240-145-63	Sequence 63, Appl
27	8754	56.3	3014	15	US-10-701-283-2	Sequence 2, Appli
28	8709	56.0	3028	14	US-10-131-409-14	Sequence 14, Appl
29	8709	56.0	3028	14	US-10-131-409-69	Sequence 69, Appl
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31	8709	56.0	3028	15	US-10-139-854-69	Sequence 69, Appl
32	8709	56.0	3028	15	US-10-150-813-14	Sequence 14, Appl
33	8709	56.0	3028	15	US-10-150-813-69	Sequence 69, Appl
34	8709	56.0	3028	15	US-10-150-811-14	Sequence 14, Appl
35	8709	56.0	3028	15	US-10-150-811-69	Sequence 69, Appl
36	7833.5	50.4	3312	14	US-10-225-567A-656	Sequence 656, App
37	7833.5	50.4	3312	15	US-10-038-854-67	Sequence 67, Appl
38	7833.5	50.4	3312	16	US-10-408-765A-1499	Sequence 1499, Ap
39	7816.5	50.3	4115	15	US-10-038-854-4	Sequence 4, Appli
40	7780.5	50.1	3313	9	US-09-737-149-29	Sequence 29, Appl
41	7780.5	50.1	3313	15	US-10-038-854-69	Sequence 69, Appl
42	7780.5	50.1	3313	15	US-10-701-283-29	Sequence 29, Appl
43	7763	49.9	3298	14	US-10-149-819-21	Sequence 21, Appl
44	7732.5	49.7	3301	15	US-10-038-854-68	Sequence 68, Appl
45	4951	31.8	1713	9	US-09-737-149-27	Sequence 27, Appl

ALIGNMENTS

RESULT 1

US-09-788-711A-4
; Sequence 4, Application US/09788711A
; Patent No. US20020058328A1
; GENERAL INFORMATION:
; APPLICANT: Tania Tamsin Testa
; TITLE OF INVENTION: NOVEL COMPOUNDS
; FILE REFERENCE: GP-30225
; CURRENT APPLICATION NUMBER: US/09/788,711A
; CURRENT FILING DATE: 2001-02-20
; PRIOR APPLICATION NUMBER: 0004196.2
; PRIOR FILING DATE: 2000-02-19
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 2923
; TYPE: PRT
; ORGANISM: HOMO SAPIENS
US-09-788-711A-4

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Db	61	SASNLWYTSRCRDAAGTGLTGHVPHDGLRVWCPESEAHIPLPAPGCPWSCRLGIG	120	
Qy	121	GHLSPOQKLTLPPEHPCIKAPRLRCQSKLAQAPGLRAGERSPEESLGRKRNNTAPQ	180	
Db	121	GHLSPOQKLTLPPEHPCIKAPRLRCQSKLAQAPGLRAGERSPEESLGRKRNNTAPQ	180	

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Db	301	NLEVGVEVLVTRATDGDAPPNANILYRLLEGSGSGSPSEFEIDPRSGVIRTRGPDVREEV	360
Qy	361	ESYQLTVEASDQGRDPGRSTTAFLVSVEDDNDNAPQFSEKRYVQVREDVTPGAPVLR	420
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Db	1261	VLFRPIHPVGLRCRCPGFTGDIYCEDEVLDLCYSRPCPGHGRCSRREGGYTCLCRDGYTG	1320
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Db	2101	DVHFTENLLRVGSALLDTANKRHWELOQTEGGTAWLLQHYEAYASALAQNNRHTYLSPP	2160
Qy	2161	TIIVTNIIVISVVRDLKGNFAGAKLPRYEALRGEOPPDLETTVIIIPESVFRETTPVVRPAG	2220
Db	2161	TIIVTNIIVISVVRDLKGNFAGAKLPRYEALRGEOPPDLETTVIIIPESVFRETTPVVRPAG	2220
Qy	2221	PGEAQEPBELARRQRHPELSQGEAVASVIIYRTLAGLLPHNYDPDKRSLRVPKRPINT	2280
Db	2221	PGEAQEPBELARRQRHPELSQGEAVASVIIYRTLAGLLPHNYDPDKRSLRVPKRPINT	2280
Qy	2281	PVWSISVHDDHELLPRALDKPVTVQFRLEETEETKPICVFNNHSILVSGTGGWSARCE	2340
Db	2281	PVWSISVHDDHELLPRALDKPVTVQFRLEETEETKPICVFNNHSILVSGTGGWSARCE	2340
Qy	2341	VVFRNESHVSCQCNHMTSFVILMDVSRRENGEIIPLKTLTYVALGVTLAALLLFFFTL	2400

Db 2341 VVFNESHVSCQCNHMTSAFVLMVSRRENGEILPLKLTIVYVALGVTLAALLLTFFFLTL 2400
 QY 2401 LRILSNQHGIIRNLTAALGLAQLVFLGGINQADLPFFACTVIAIILLHFLYLCTFSWALLE 2460
 Db 2401 LRILSNQHGIIRNLTAALGLAQLVFLGGINQADLPFFACTVIAIILLHFLYLCTFSWALLE 2460
 QY 2461 ALHLYRALTEVRDVTGPMRFYMLGWGPAPFITGLAVGLDPGEGNGNDFPCWLSYDTLI 2520
 Db 2461 ALHLYRALTEVRDVTGPMRFYMLGWGPAPFITGLAVGLDPGEGNGNDFPCWLSYDTLI 2520
 QY 2521 WSPAGVAFVMSVFLVILAAASCAAOQGFKKGPVSGLOPSFAVLLLSATWLLAL 2580
 Db 2521 WSPAGVAFVMSVFLVILAAASCAAOQGFKKGPVSGLOPSFAVLLLSATWLLAL 2580
 QY 2581 LSVNSDTLLFHYLPATNCIOGPFIFLSYVVLKSVKVRKALKACSRKPSDPALTTKSTL 2640
 Db 2581 LSVNSDTLLFHYLPATNCIOGPFIFLSYVVLKSVKVRKALKACSRKPSDPALTTKSTL 2640
 QY 2641 TSSYNCPSPYADGRLYQYGSAGSLHSTSRGKSQPSYIIFLLREBSALNPGQPPGLG 2700
 Db 2641 TSSYNCPSPYADGRLYQYGSAGSLHSTSRGKSQPSYIIFLLREBSALNPGQPPGLG 2700
 QY 2701 DPGSLFLRGQOQDHPDPTDSDSLSDLSLDDQSGSVASTHSSDSEEEEEEEEAAPGREG 2760
 Db 2701 DPGSLFLRGQOQDHPDPTDSDSLSDLSLDDQSGSVASTHSSDSEEEEEEEEAAPGREG 2760
 QY 2761 WDSLPGCAERLPLHSTPKDGGPGKAPWPGDFGTAKESSGNGAPERLRENGDALSR 2820
 Db 2761 WDSLPGCAERLPLHSTPKDGGPGKAPWPGDFGTAKESSGNGAPERLRENGDALSR 2820
 QY 2821 EGSGLPLPGSQAHPKHGILKKKCLPTISEKSLRLPLEOCTGSRGSSASEGSRGGPPP 2880
 Db 2821 EGSGLPLPGSQAHPKHGILKKKCLPTISEKSLRLPLEOCTGSRGSSASEGSRGGPPP 2880
 QY 2881 RPPRQSLQEQNGVMPIMSIKAGTVDEDSGSEFLFNFILH 2923
 Db 2881 RPPRQSLQEQNGVMPIMSIKAGTVDEDSGSEFLFNFILH 2923

RESULT 2

US-09-916-849A-3
 ; Sequence 3, Application US/09916849A
 ; Publication No. US20030086934A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Bostein, et al.
 ; TITLE OF INVENTION: Basal Markers in Breast Cancer and Related Reagents
 ; TITLE OF INVENTION: Uses Thereof
 ; FILE REFERENCE: 2002850-0024
 ; CURRENT APPLICATION NUMBER: US/09/916.849A
 ; CURRENT FILING DATE: 2001-07-26
 ; NUMBER OF SEQ ID NOS: 15
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 3
 ; LENGTH: 2923
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Cadherin BGP
 ; OTHER INFORMATION: LAG Seven Pass G-Type Receptor 2
 US-09-916-849A-3

Query Match 100.0%; Score 15545; DB 10; Length 2923;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRSATGVPPLTPPPPLLLLLLLLLPPPLLDGQVGPCKSLGSRGSSGACAPMGWLCPS 60
 Db 1 MRSATGVPPLTPPPPLLLLLLLLLPPPLLDGQVGPCKSLGSRGSSGACAPMGWLCPS 60
 QY 61 SASNLWLYTSCRDAAGTGLTGHLPVHHDGLRWCPSEAHPLPPEAGCPCWSCRLLIG 120
 Db 61 SASNLWLYTSCRDAAGTGLTGHLPVHHDGLRWCPSEAHPLPPEAGCPCWSCRLLIG 120

QY 121 CHLSFQKGLTLPBEPHCLKAPRLRCQCKLAQAPGLRAGERSPESSLGRRKRNVTAPQ 180
 Db 121 CHLSFQKGLTLPBEPHCLKAPRLRCQCKLAQAPGLRAGERSPESSLGRRKRNVTAPQ 180
 QY 181 FOPPSYQATVPENOPACTPVASLRAIDDEGEAGRELYTMDALFDSRSNOPFSLDPVTGA 240
 Db 181 FOPPSYQATVPENOPACTPVASLRAIDDEGEAGRELYTMDALFDSRSNOPFSLDPVTGA 240
 QY 241 VTTAEELDRETKSTHFRVTAQDHGMPRRSALATILVTDTNDHDVPFEOQYKESLRE 300
 Db 241 VTTAEELDRETKSTHFRVTAQDHGMPRRSALATILVTDTNDHDVPFEOQYKESLRE 300
 QY 301 NLEVGYEVLTVRATDGDAPPNNANILYLLRGGSGSPSEVFEIDPRSGVIRTRGPVDRREV 360
 Db 301 NLEVGYEVLTVRATDGDAPPNNANILYLLRGGSGSPSEVFEIDPRSGVIRTRGPVDRREV 360
 QY 361 ESYQLTVEASDQGRDPPRSTTAAVFLSVEDNDNAPQFSEKRYVVOVREDVTPCAPVL 420
 Db 361 ESYQLTVEASDQGRDPPRSTTAAVFLSVEDNDNAPQFSEKRYVVOVREDVTPCAPVL 420
 QY 421 VTASDRKGSNAVHYHSIMSGNARGQFYLDATQTCALDVVSPLDYETTKETTLRVAQDGG 480
 Db 421 VTASDRKGSNAVHYHSIMSGNARGQFYLDATQTCALDVVSPLDYETTKETTLRVAQDGG 480
 QY 481 RPPLSNVSGLVTVQVLDINDNAPIFVSTPPQATVLESVPLGYLVHLVQAIADADAGNARL 540
 Db 481 RPPLSNVSGLVTVQVLDINDNAPIFVSTPPQATVLESVPLGYLVHLVQAIADADAGNARL 540
 QY 541 EYRLAGVCHDPPFTINNGTGWISVAAELDREVDYFSGVEARDHGTALTASASVTV 600
 Db 541 EYRLAGVCHDPPFTINNGTGWISVAAELDREVDYFSGVEARDHGTALTASASVTV 600
 QY 601 LDVNDNPTFTQPEYTVRLNEDAAVGTSVTVSAVDRDAHVSITYQITSGNTRNRFST 660
 Db 601 LDVNDNPTFTQPEYTVRLNEDAAVGTSVTVSAVDRDAHVSITYQITSGNTRNRFST 660
 QY 661 QSGGLVSLALPLDYKLERQVLAVTASDGTQDTAQIVVNVTDANTHRPVSQSHYTVN 720
 Db 661 QSGGLVSLALPLDYKLERQVLAVTASDGTQDTAQIVVNVTDANTHRPVSQSHYTVN 720
 QY 721 VNEDRPAGTTVLISATDEDTGENARITYFMEDSIPOFRIDADTCAVTOQLDYEDQVS 780
 Db 721 VNEDRPAGTTVLISATDEDTGENARITYFMEDSIPOFRIDADTCAVTOQLDYEDQVS 780
 QY 781 YTLAITARDNGIPKSDTTLLEILVNDVNDNAPQFLRDSYQSVYEDVPPFTSVLQISAT 840
 Db 781 YTLAITARDNGIPKSDTTLLEILVNDVNDNAPQFLRDSYQSVYEDVPPFTSVLQISAT 840
 QY 841 DRDSGLNGRVFTYFQGGDGDGDFIVESTSGIVRTLRLDRENVAAQYVLRAYAVDKGMP 900
 Db 841 DRDSGLNGRVFTYFQGGDGDGDFIVESTSGIVRTLRLDRENVAAQYVLRAYAVDKGMP 900
 QY 901 ARTEPMETVTVLDVNDNPPVFEQDEFVFEENSPIGLAVARVTATDDEGTNAQIMYQI 960
 Db 901 ARTEPMETVTVLDVNDNPPVFEQDEFVFEENSPIGLAVARVTATDDEGTNAQIMYQI 960
 QY 961 VEGNIPVFOVDIPFSGELTALVDLDEDRPYVLVIOATSAPLVSRAVTVHVLRLDRNDP 1020
 Db 961 VEGNIPVFOVDIPFSGELTALVDLDEDRPYVLVIOATSAPLVSRAVTVHVLRLDRNDP 1020
 QY 1021 PVLGNFELFNMYVTRSSSPFGGAIGRVPADHDPISDSLTYSFPERGNELSLVLLNASTG 1080
 Db 1021 PVLGNFELFNMYVTRSSSPFGGAIGRVPADHDPISDSLTYSFPERGNELSLVLLNASTG 1080
 QY 1081 ELKLSRALDNRPLEATMSVLVSDGVHSTVACALRVTIITDEMLTSHITLREDMSPER 1140
 Db 1081 ELKLSRALDNRPLEATMSVLVSDGVHSTVACALRVTIITDEMLTSHITLREDMSPER 1140
 QY 1141 FLSPGLGLFTQAVAAATLATPDDHVVNFVNDRTDAPGCHIILNVLSVQPPGPGGPPFL 1200
 Db 1141 FLSPGLGLFTQAVAAATLATPDDHVVNFVNDRTDAPGCHIILNVLSVQPPGPGGPPFL 1200
 QY 1201 PSEDQBLRYLNRSLTLTAISAQRVLPFDNDNICLREPCENYMRVCVSLRFDSSAPFIASS 1260


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Db      1201  PSEDQLERLYNLSLLTAISAQRLVDFDNNICURBECENVMRCVSLRFDSSAPFIASS 1260
Qy      1261  VLFRLHPVGLRCRCPGFTGDCYETEDVLCYSRCPGPHGRCSRREGYVTCCLRDGYTG 1320
Db      1261  VLFRLHPVGLRCRCPGFTGDCYETEDVLCYSRCPGPHGRCSRREGYVTCCLRDGYTG 1320
Qy      1321  EHEVARSRCPTGVCKNGGTCVNLIVGGFKDCSPGDFPEKPYCQVTTSPAHISFTIF 1380
Db      1321  EHEVARSRCPTGVCKNGGTCVNLIVGGFKDCSPGDFPEKPYCQVTTSPAHISFTIF 1380
Qy      1381  RGLRQRFHTLALSPATKRDGLLLYNGRNEKHDVFALEVIQEQVQLTFSAGESITTVS 1440
Db      1381  RGLRQRFHTLALSPATKRDGLLLYNGRNEKHDVFALEVIQEQVQLTFSAGESITTVS 1440
Qy      1441  PFVPGVSDGQWHTVQLKYNNKLLGQTLPGQPSQKVAVTVDCDGTGVALRFGSVLG 1500
Db      1441  PFVPGVSDGQWHTVQLKYNNKLLGQTLPGQPSQKVAVTVDCDGTGVALRFGSVLG 1500
Qy      1501  NYSAAQGTGGKSLDLTGPIILGGVPLDPSFPVRMQFVGCWNRNLQVDSRHIDMAD 1560
Db      1501  NYSAAQGTGGKSLDLTGPIILGGVPLDPSFPVRMQFVGCWNRNLQVDSRHIDMAD 1560
Qy      1561  FIANNGTVPCKPAKKNVCDNTCHNGTGVNQWDAFSCPCPLGFGKSCAQEWANPQHFL 1620
Db      1561  FIANNGTVPCKPAKKNVCDNTCHNGTGVNQWDAFSCPCPLGFGKSCAQEWANPQHFL 1620
Qy      1621  GSSIVAMHGLSLPISQPMWLSLMFRTRQADGVLLQAITRGRSTITLQREGHVMSVEGT 1680
Db      1621  GSSIVAMHGLSLPISQPMWLSLMFRTRQADGVLLQAITRGRSTITLQREGHVMSVEGT 1680
Qy      1681  GLQASSLRLEPGRANDGWHQAOLAGSGGPGHAILSFYDQQRAGNGLPRLHGLHS 1740
Db      1681  GLQASSLRLEPGRANDGWHQAOLAGSGGPGHAILSFYDQQRAGNGLPRLHGLHS 1740
Qy      1741  NITVGGIPGAGVGARGFRCGLQGVRSVDTPEGVNSLDPHSGESINVEQCSLDPDCSN 1800
Db      1741  NITVGGIPGAGVGARGFRCGLQGVRSVDTPEGVNSLDPHSGESINVEQCSLDPDCSN 1800
Qy      1801  PCPANSYCSNDWDSYSCSDPGYGGDNCTVCDLNPCEHQSVCVTRKPSAPHGYTCPCPN 1860
Db      1801  PCPANSYCSNDWDSYSCSDPGYGGDNCTVCDLNPCEHQSVCVTRKPSAPHGYTCPCPN 1860
Qy      1861  YLGPYCETRIDQPCRGWGHPTGCPNCNDVSGFDDPDKNTSGECKENHYRPPGSP 1920
Db      1861  YLGPYCETRIDQPCRGWGHPTGCPNCNDVSGFDDPDKNTSGECKENHYRPPGSP 1920
Qy      1921  CLLCDDYPTGSLRVCDEPQCPKPGVIGROCDRCNPFVETTINGCEVNDSCPRAI 1980
Db      1921  CLLCDDYPTGSLRVCDEPQCPKPGVIGROCDRCNPFVETTINGCEVNDSCPRAI 1980
Qy      1981  EAGIWWPRTRFGLPAAAPCKPSFGTAVRHCDEHRGWLPPNLFNCTSIITFSELKGFABL 2040
Db      1981  EAGIWWPRTRFGLPAAAPCKPSFGTAVRHCDEHRGWLPPNLFNCTSIITFSELKGFABL 2040
Qy      2041  QRNESGLDSRQQLALLRNATQHTAGYFSDVKVAYQATRLLAHSTQRFGLSATQ 2100
Db      2041  QRNESGLDSRQQLALLRNATQHTAGYFSDVKVAYQATRLLAHSTQRFGLSATQ 2100
Qy      2101  DVHFTENLRVGSALLDTANKRWELIQTEGGTAWLLQHYEYASALAQNMHTYLSPP 2160
Db      2101  DVHFTENLRVGSALLDTANKRWELIQTEGGTAWLLQHYEYASALAQNMHTYLSPP 2160
Qy      2161  TIVTPNIVISVVRLDKGNFAGAKLPRYEALRGSPDPDLETTVILPESVFRETTPVVRPAG 2220
Db      2161  TIVTPNIVISVVRLDKGNFAGAKLPRYEALRGSPDPDLETTVILPESVFRETTPVVRPAG 2220
Qy      2221  PGEAQEPTELARRQRHPELSQGBAVASVIYRTLAGLLPHNDPDKRSRVRPKRIINT 2280
Db      2221  PGEAQEPTELARRQRHPELSQGBAVASVIYRTLAGLLPHNDPDKRSRVRPKRIINT 2280
Qy      2281  PVVSIHVHDELLPRALDKPVTVPRLLEETERTKPICVFWMNHSILVSGTGCWSARGCE 2340

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Db      2281  PVVSIHVHDELLPRALDKPVTVPRLLEETERTKPICVFWMNHSILVSGTGCWSARGCE 2340
Qy      2341  VVFNEBHVSCQCHNMTSPFVLMDSRRENGEILPLKTLTYVALGVTLAALLLTFPFLTL 2400
Db      2341  VVFNEBHVSCQCHNMTSPFVLMDSRRENGEILPLKTLTYVALGVTLAALLLTFPFLTL 2400
Qy      2401  LRIIRSNQHGIRRNLTAAQLAQLVFLGINQADLPACTVIALLLHFLYLCYFWSWALLE 2460
Db      2401  LRIIRSNQHGIRRNLTAAQLAQLVFLGINQADLPACTVIALLLHFLYLCYFWSWALLE 2460
Qy      2461  ALHLYRALTEVRDVTNTPMRFYMLGVPFPAFITGLAVGLDPEGYGNDPCWLSIYDTLI 2520
Db      2461  ALHLYRALTEVRDVTNTPMRFYMLGVPFPAFITGLAVGLDPEGYGNDPCWLSIYDTLI 2520
Qy      2521  WSPAGPVAFVMSVFLYIILAAASCAAQKQKPGKGVSLQPSFAVILLLSATWLLAL 2580
Db      2521  WSPAGPVAFVMSVFLYIILAAASCAAQKQKPGKGVSLQPSFAVILLLSATWLLAL 2580
Qy      2581  LSVNSDTLLPHYLATCNCIQGPFIFLSYVVLSEVKALKACSRKPSPPALTTKSTL 2640
Db      2581  LSVNSDTLLPHYLATCNCIQGPFIFLSYVVLSEVKALKACSRKPSPPALTTKSTL 2640
Qy      2641  TSSYNCPSPYADGRLYQPYGDSAGSLHSTSRSGKSQPSYIPFLLREESALNPQGPPGLG 2700
Db      2641  TSSYNCPSPYADGRLYQPYGDSAGSLHSTSRSGKSQPSYIPFLLREESALNPQGPPGLG 2700
Qy      2701  DPGSLFLEGQDQDDPDTSDSDLSLEDDQSGSVASTHSSDSESESESESESESESESE 2760
Db      2701  DPGSLFLEGQDQDDPDTSDSDLSLEDDQSGSVASTHSSDSESESESESESESESESE 2760
Qy      2761  WDSLPGCAERLPLHSTPKDGGPGKAPWPGDPTGTTAKSSNGCAPPEERLRENGDALSR 2820
Db      2761  WDSLPGCAERLPLHSTPKDGGPGKAPWPGDPTGTTAKSSNGCAPPEERLRENGDALSR 2820
Qy      2821  EGSGLPLGSSAQPHKGLKKKCLPTISEKSLRLPLEQCTGSSRGSSASESGRGGPPP 2880
Db      2821  EGSGLPLGSSAQPHKGLKKKCLPTISEKSLRLPLEQCTGSSRGSSASESGRGGPPP 2880
Qy      2881  RPPRQSLQEQINGVMPMIAMSIKAGTVDESDSSGSEFLFFNHLH 2923
Db      2881  RPPRQSLQEQINGVMPMIAMSIKAGTVDESDSSGSEFLFFNHLH 2923

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RESULT 3
US-10-225-567A-524
; Sequence 524, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: LifeSpan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burmer, Glenn C.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 524
; LENGTH: 2923
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-225-567A-524

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Query Match      100.0%; Score 15545; DB 14; Length 2923;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  MRSPTATGVLPTPPPLLLLLLLLLLLLLPPPLLDQGVQPCRSLSGRSGSGACAPMGLCP 60
Db      1  MRSPTATGVLPTPPPLLLLLLLLLLLLLPPPLLDQGVQPCRSLSGRSGSGACAPMGLCP 60

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QY 61 SASNLWLTYSRCDRAGTELTHGLVPHHDGLRWCPSESAHPLPPAPBGCPCWSCRLIGIG 120
DB 61 SASNLWLTYSRCDRAGTELTHGLVPHHDGLRWCPSESAHPLPPAPBGCPCWSCRLIGIG 120
QY 121 GHLSPOGKLTLPPEHPCLKAPRLRCOSCKLAQAPGLRAGERSPEBSLGRKRKNVNTAPQ 180
DB 121 GHLSPOGKLTLPPEHPCLKAPRLRCOSCKLAQAPGLRAGERSPEBSLGRKRKNVNTAPQ 180
QY 181 FOPPSYQATVPENOPAGTFVASLRAIDPDEGEAGRLEYTMDALFDSRSNQFFSLDPVTGA 240
DB 181 FOPPSYQATVPENOPAGTFVASLRAIDPDEGEAGRLEYTMDALFDSRSNQFFSLDPVTGA 240
QY 241 VTTAEELDRETKSTHVPRTAQDHGMPRRSALATLTILVTDTNDHDPVFEQOEYESLRE 300
DB 241 VTTAEELDRETKSTHVPRTAQDHGMPRRSALATLTILVTDTNDHDPVFEQOEYESLRE 300
QY 301 NLEVGYEVLTVRATDGDAPPANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPVDREEV 360
DB 301 NLEVGYEVLTVRATDGDAPPANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPVDREEV 360
QY 361 ESYQLTVEASQGRDPGRSTTAAVFLSVEDDNDNAPOFSEKRYVYVQVREDVTPGAPVLR 420
DB 361 ESYQLTVEASQGRDPGRSTTAAVFLSVEDDNDNAPOFSEKRYVYVQVREDVTPGAPVLR 420
QY 421 VTASDRDKGSNAVHYSTMSGNARGQFYLDATGALDVVSPLDYETTKYETTLRVRAQDGG 480
DB 421 VTASDRDKGSNAVHYSTMSGNARGQFYLDATGALDVVSPLDYETTKYETTLRVRAQDGG 480
QY 481 RPPLSNVSGLTVTVQVLDINDNAPFVSTPFOATVLESVPLGLVHLVQAIADADAGDNARL 540
DB 481 RPPLSNVSGLTVTVQVLDINDNAPFVSTPFOATVLESVPLGLVHLVQAIADADAGDNARL 540
QY 541 EYRLAGVGHDPFFITNNGTGMISVAEALDREEDVDFYSGVEARDHGTGTPALTASASVTV 600
DB 541 EYRLAGVGHDPFFITNNGTGMISVAEALDREEDVDFYSGVEARDHGTGTPALTASASVTV 600
QY 601 LDVNDNNPTFQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVITVQITSGNTRNRFSTIS 660
DB 601 LDVNDNNPTFQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVITVQITSGNTRNRFSTIS 660
QY 661 QSGGGLVSLALPLDYKLRQVYLAVTASDGTRODTAQILVNVNTDANTHRPVFQSSHVTYN 720
DB 661 QSGGGLVSLALPLDYKLRQVYLAVTASDGTRODTAQILVNVNTDANTHRPVFQSSHVTYN 720
QY 721 VNEDEPACTTVVLISATDEDTCENARITYFMEDSIPQFRIDADTCAVTTQAELEDYEDQVS 780
DB 721 VNEDEPACTTVVLISATDEDTCENARITYFMEDSIPQFRIDADTCAVTTQAELEDYEDQVS 780
QY 781 YTLAITARDNGIPQKSDTYYLEILVNDVNDNAPOFLRDSYQGSVYEDVPPFTSVLQISAT 840
DB 781 YTLAITARDNGIPQKSDTYYLEILVNDVNDNAPOFLRDSYQGSVYEDVPPFTSVLQISAT 840
QY 841 DRDSGLAGRVFTFQGGDDGDFVSTSGIVRTLRELDRENVAAQYVLRAYAVDKGMP 900
DB 841 DRDSGLAGRVFTFQGGDDGDFVSTSGIVRTLRELDRENVAAQYVLRAYAVDKGMP 900
QY 901 ARTPMEVTVTVLVDVNDNPPVFEQDFVFEVENSPIGLAVARVATDDEGTNAQIMYQI 960
DB 901 ARTPMEVTVTVLVDVNDNPPVFEQDFVFEVENSPIGLAVARVATDDEGTNAQIMYQI 960
QY 961 VEGNIPEVQOLDIFSGELTALVDLYEDRPEYLVQIATSAPLSRVATVHVRLLDNRNDP 1020
DB 961 VEGNIPEVQOLDIFSGELTALVDLYEDRPEYLVQIATSAPLSRVATVHVRLLDNRNDP 1020
QY 1021 PVLGNFEILFNNTVTRNRSPPGGAIGRVPADHDDISDSLTYSFPERGNELSLVLLNASTG 1080
DB 1021 PVLGNFEILFNNTVTRNRSPPGGAIGRVPADHDDISDSLTYSFPERGNELSLVLLNASTG 1080
QY 1081 ELKLSRALDNRNPLEAIMSVLSDGVHSTVQAALRVITIIDEMLTITILREDMSPER 1140
DB 1081 ELKLSRALDNRNPLEAIMSVLSDGVHSTVQAALRVITIIDEMLTITILREDMSPER 1140

QY 1141 FLSPLGLGFTQAAVATLATPPDHVVVFNVDQTDAPGCHILNVLSVQPPGPGGPPFL 1200
DB 1141 FLSPLGLGFTQAAVATLATPPDHVVVFNVDQTDAPGCHILNVLSVQPPGPGGPPFL 1200
QY 1201 PSEDLQERLYLNRSLLTATISAQVLPFDNDNCLREPCENYMRCSVLRFDSAPFIASSS 1260
DB 1201 PSEDLQERLYLNRSLLTATISAQVLPFDNDNCLREPCENYMRCSVLRFDSAPFIASSS 1260
QY 1261 VLFPIHPVGLRCRCPPGFTGDCETEVDLICYSRPPGPHRCRSRREGYVTCCLCRDGYTG 1320
DB 1261 VLFPIHPVGLRCRCPPGFTGDCETEVDLICYSRPPGPHRCRSRREGYVTCCLCRDGYTG 1320
QY 1321 EHCVSARSARCTPGVCKNGGTCVNLVGGFKDCPSGDPEKPYCQVTRTFPPAHSFITY 1380
DB 1321 EHCVSARSARCTPGVCKNGGTCVNLVGGFKDCPSGDPEKPYCQVTRTFPPAHSFITY 1380
QY 1381 RGLQRPHFTLALSFAATKERDGLLYNGRFRNEKHDFALEVIQEQVQLTFSGAGSTTVVS 1440
DB 1381 RGLQRPHFTLALSFAATKERDGLLYNGRFRNEKHDFALEVIQEQVQLTFSGAGSTTVVS 1440
QY 1441 PFVPGVSDGOWHTVQLKYNNKPLLGOTGLPQGPSEQKVAVTVVDGCDTGVALRPGSVLG 1500
DB 1441 PFVPGVSDGOWHTVQLKYNNKPLLGOTGLPQGPSEQKVAVTVVDGCDTGVALRPGSVLG 1500
QY 1501 NYSCAAQGTGGSKSLDLTGPIILGGVPDLPESFPVPMRQFVGCNRNLQVDSRHIDNAD 1560
DB 1501 NYSCAAQGTGGSKSLDLTGPIILGGVPDLPESFPVPMRQFVGCNRNLQVDSRHIDNAD 1560
QY 1561 FIANNVTVPCKAKNVCDNSTCHNGGTCVNWDAFSCCEPLGFGGKSCAQBEMANPOHFL 1620
DB 1561 FIANNVTVPCKAKNVCDNSTCHNGGTCVNWDAFSCCEPLGFGGKSCAQBEMANPOHFL 1620
QY 1621 GSSLVAMHGLSLPTISQPMWYLSMFRTRQADGVLLQAITRGRSTITLQREGHVMSVSGT 1680
DB 1621 GSSLVAMHGLSLPTISQPMWYLSMFRTRQADGVLLQAITRGRSTITLQREGHVMSVSGT 1680
QY 1681 GLQASSLRLEPRANDGDWHAQALGASGPGHAILISFDYQOQRAEAGNLGRLHGLHS 1740
DB 1681 GLQASSLRLEPRANDGDWHAQALGASGPGHAILISFDYQOQRAEAGNLGRLHGLHS 1740
QY 1741 NITVGGIPGAGGVARGFRCGLQGVYRSDTPEGVNSLDPHSGESINVEQGSCLPDPDSDN 1800
DB 1741 NITVGGIPGAGGVARGFRCGLQGVYRSDTPEGVNSLDPHSGESINVEQGSCLPDPDSDN 1800
QY 1801 PCPANSYCSNDWDSYSCSDPGYGDNCTNVCNCEHQSVCTRKPSAPHGYTCECPN 1860
DB 1801 PCPANSYCSNDWDSYSCSDPGYGDNCTNVCNCEHQSVCTRKPSAPHGYTCECPN 1860
QY 1861 YLGPYCETRIDQPCPRGWGHPTGCPNCNDYSGKFPDPCNKTSGECHCKENHYRPPGSPT 1920
DB 1861 YLGPYCETRIDQPCPRGWGHPTGCPNCNDYSGKFPDPCNKTSGECHCKENHYRPPGSPT 1920
QY 1921 CLICDCYPTGSLSVCDPEDGQCPKPGVIGRQCDRCNDNPAEVTTNGCEVNYDSCPRAI 1980
DB 1921 CLICDCYPTGSLSVCDPEDGQCPKPGVIGRQCDRCNDNPAEVTTNGCEVNYDSCPRAI 1980
QY 1981 EAGIWWPRTRFGLPAAAPCPKSGSFGTAVRHCDHRGMLPPNLFNCTSTITFSELKGFABRL 2040
DB 1981 EAGIWWPRTRFGLPAAAPCPKSGSFGTAVRHCDHRGMLPPNLFNCTSTITFSELKGFABRL 2040
QY 2041 QRNESGLDSRQSLALLRNATQHTAGYFGSDVKVAYQLATRLLAHSTORGFGLSATQ 2100
DB 2041 QRNESGLDSRQSLALLRNATQHTAGYFGSDVKVAYQLATRLLAHSTORGFGLSATQ 2100
QY 2101 DVHFTENLLRVGSLALLDTANKRWELIQTQEGGTAWLLQHYEAVASALQANRHTYLSPP 2160
DB 2101 DVHFTENLLRVGSLALLDTANKRWELIQTQEGGTAWLLQHYEAVASALQANRHTYLSPP 2160
QY 2161 TIVTPNIVISVVRLDKGNFAGAKLPRYEALRGEOPDLETTVILPESVFRETTPVVRPAG 2220
DB 2161 TIVTPNIVISVVRLDKGNFAGAKLPRYEALRGEOPDLETTVILPESVFRETTPVVRPAG 2220
QY 2221 PGEAQSPPELARRQRHPPELSQGEAVASVIIYRTLAGLLPHNYDPDKSLRVPKRPPIINT 2280

Db	2221	PGEAQPPEELARQRRHPELSGCEAVASVIIYRTLAGLLPHNYDPDKSLRVPKPIINT	2280
Qy	2281	PVVSISVHDDDELLPRALDKPVTVOQRILLEETERTKPICVFNWHSILVSGTGGNARGCE	2340
Db	2281	PVVSISVHDDDELLPRALDKPVTVOQRILLEETERTKPICVFNWHSILVSGTGGNARGCE	2340
Qy	2341	VVFNESHVSCQCNHMTSPAVLMDVSRRENGETLPLKTLTYVALGYVTLLAALLTFFFLTL	2400
Db	2341	VVFNESHVSCQCNHMTSPAVLMDVSRRENGETLPLKTLTYVALGYVTLLAALLTFFFLTL	2400
Qy	2401	LRILRSNQHGIIRNLTAALGLAQLVFLGGINQADLPFACTVIAILLHFLYLCTFSSWALLE	2460
Db	2401	LRILRSNQHGIIRNLTAALGLAQLVFLGGINQADLPFACTVIAILLHFLYLCTFSSWALLE	2460
Qy	2461	ALHLYRALTEVRDVTGPMRFYMLGWGVPAPFTGLAVGLDPEGYNPDFCWLSIYDTLI	2520
Db	2461	ALHLYRALTEVRDVTGPMRFYMLGWGVPAPFTGLAVGLDPEGYNPDFCWLSIYDTLI	2520
Qy	2521	WSFAGPVAPAVSVFLYILAAASCAAOQGEKKGPVSGLOPSFAVILLLSATWLLAL	2580
Db	2521	WSFAGPVAPAVSVFLYILAAASCAAOQGEKKGPVSGLOPSFAVILLLSATWLLAL	2580
Qy	2581	LSVNSDTLLPHYLFCNCIQGPFIFLSYVVLSEVKRKLACSRKPSDPALTTKSTL	2640
Db	2581	LSVNSDTLLPHYLFCNCIQGPFIFLSYVVLSEVKRKLACSRKPSDPALTTKSTL	2640
Qy	2641	TSSVNCPSVADGRLLQPYGDSAGSLHSTRSRKSPSYPIPLLRBSALNPGQPPGLG	2700
Db	2641	TSSVNCPSVADGRLLQPYGDSAGSLHSTRSRKSPSYPIPLLRBSALNPGQPPGLG	2700
Qy	2701	DPGSLFLEGQOQOHDPTDSDSLSDDOGSYASTHSSDSEEEEEERAAAPGEG	2760
Db	2701	DPGSLFLEGQOQOHDPTDSDSLSDDOGSYASTHSSDSEEEEEERAAAPGEG	2760
Qy	2761	WDSILGFGAERLLPHSTPKDGGPGPKAPWPGDFTGTAKESGNGGAPEERLRENGDALSR	2820
Db	2761	WDSILGFGAERLLPHSTPKDGGPGPKAPWPGDFTGTAKESGNGGAPEERLRENGDALSR	2820
Qy	2821	EGSLGPIPGSSAQPHKILKKCLPTISEKSSLLRLPLEOCTGSSRGSSASGSGRGPPPP	2880
Db	2821	EGSLGPIPGSSAQPHKILKKCLPTISEKSSLLRLPLEOCTGSSRGSSASGSGRGPPPP	2880
Qy	2881	RPPRQSLQELQNGVMPAIAMSIKAGTVDEDSGSEFLFNFLH	2923
Db	2881	RPPRQSLQELQNGVMPAIAMSIKAGTVDEDSGSEFLFNFLH	2923

RESULT 4
US-10-174-677-29
; Sequence 29, Application US/10174677
; Publication No. US20030190704A1
; GENERAL INFORMATION:
; APPLICANT: Xie, Ting
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANCHORING STEM CELLS IN A MICROENVIR
; FILE REFERENCE: 40716 (IP-012)
; CURRENT APPLICATION NUMBER: US/10/174,677
; CURRENT FILING DATE: 2002-06-19
; NUMBER OF SEQ ID NOS: 117
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 29
; LENGTH: 2923
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-174-677-29

Query Match 100.0%; Score 15545; DB 14; Length 2923;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MRS PATGVLPPTPPPLLLLLLLLLLPPPLLDQVGCPSRSGRSGSSGACAPMGWLCPS	60
Db	1	MRS PATGVLPPTPPPLLLLLLLLLLPPPLLDQVGCPSRSGRSGSSGACAPMGWLCPS	60

Qy	61	SASNLWLTYSRCRDAGTGLHVLPHDGLRVMCPSESEAHIPPLPAPGCPWSCRLLGIG	120
Db	61	SASNLWLTYSRCRDAGTGLHVLPHDGLRVMCPSESEAHIPPLPAPGCPWSCRLLGIG	120
Qy	121	GHLSPQGLKTLPEBHPCLKAPRLRCQSCCKLAQAPGLRAGERSPEESLGGRRKKNVNTAPQ	180
Db	121	GHLSPQGLKTLPEBHPCLKAPRLRCQSCCKLAQAPGLRAGERSPEESLGGRRKKNVNTAPQ	180
Qy	181	FQPSYQATVPENOPACTPVASIRAIIDPDGEAGRELYTMDALFDSRSNOFFSILDPVTGA	240
Db	181	FQPSYQATVPENOPACTPVASIRAIIDPDGEAGRELYTMDALFDSRSNOFFSILDPVTGA	240
Qy	241	VTTAEELDRRETKSTHVRVTAQDHGMPRRSALATLTLVTDNDHDPVFQOQYKESLRE	300
Db	241	VTTAEELDRRETKSTHVRVTAQDHGMPRRSALATLTLVTDNDHDPVFQOQYKESLRE	300
Qy	301	NLEVGYEVLTVRAITGDAPPNANILYRLLEGSGSGSPSEVFIEDPRSGVIRTRGPDVREEV	360
Db	301	NLEVGYEVLTVRAITGDAPPNANILYRLLEGSGSGSPSEVFIEDPRSGVIRTRGPDVREEV	360
Qy	361	ESYQLTVEASDQGRDPCPRSTTAAVFLSVEDDNDNAPQFSEKRYVVOVREDVTPGAPVLR	420
Db	361	ESYQLTVEASDQGRDPCPRSTTAAVFLSVEDDNDNAPQFSEKRYVVOVREDVTPGAPVLR	420
Qy	421	VTASDRDKGSNAVHYHYSIMSGNARGQFYLDATQTCALDWSPLDYETTKETYLVRADQGG	480
Db	421	VTASDRDKGSNAVHYHYSIMSGNARGQFYLDATQTCALDWSPLDYETTKETYLVRADQGG	480
Qy	481	RPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLESVPLGLVHLVQADADAGDNARL	540
Db	481	RPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLESVPLGLVHLVQADADAGDNARL	540
Qy	541	EYRLAGVGHDPPTFNNGTGWI SVAAELDREEDVDFYSGVEARDHGCTPALTASASVTV	600
Db	541	EYRLAGVGHDPPTFNNGTGWI SVAAELDREEDVDFYSGVEARDHGCTPALTASASVTV	600
Qy	601	LDVNDNPTFTQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVTYQITSGTNRNRSITS	660
Db	601	LDVNDNPTFTQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVTYQITSGTNRNRSITS	660
Qy	661	QSGGLVSLALPLDYKLERQYVLAVTASDGTQDTAQI VVNVTDANTHRPVFQSSHVTN	720
Db	661	QSGGLVSLALPLDYKLERQYVLAVTASDGTQDTAQI VVNVTDANTHRPVFQSSHVTN	720
Qy	721	VNEDRPAGTTVVLISATDEDTGENARITYPMEDSIPOFRIDADTGAVTQAEILDYEDQVS	780
Db	721	VNEDRPAGTTVVLISATDEDTGENARITYPMEDSIPOFRIDADTGAVTQAEILDYEDQVS	780
Qy	781	YTLAITARDNGIPKSDTTLLEILLVNDVNDNAPQFLRDSYQGSVYEDVPPFTSVLQISAT	840
Db	781	YTLAITARDNGIPKSDTTLLEILLVNDVNDNAPQFLRDSYQGSVYEDVPPFTSVLQISAT	840
Qy	841	DRDSGLNGRVFTYFGGDDGDFIVESTSGIVTRLRLRDRENVQAVYLRAYAVDKMPP	900
Db	841	DRDSGLNGRVFTYFGGDDGDFIVESTSGIVTRLRLRDRENVQAVYLRAYAVDKMPP	900
Qy	901	ARTPMEVTVTVLDVNDNPPVPEQDEFVFEENSPIGLAVARVTTATPDDEGTNAQIMYOI	960
Db	901	ARTPMEVTVTVLDVNDNPPVPEQDEFVFEENSPIGLAVARVTTATPDDEGTNAQIMYOI	960
Qy	961	VEGNIPEVFDQDIFSGELTALVDYEDRPREYVLVIQATSAPLVSRATVHRLDRDNDP	1020
Db	961	VEGNIPEVFDQDIFSGELTALVDYEDRPREYVLVIQATSAPLVSRATVHRLDRDNDP	1020
Qy	1021	PVLGNFEILFNNTNRSSSPFGGAIGRPVPAHDPIIDSLSITYSPERGNEISLVLLNASTG	1080
Db	1021	PVLGNFEILFNNTNRSSSPFGGAIGRPVPAHDPIIDSLSITYSPERGNEISLVLLNASTG	1080
Qy	1081	ELKLSRALDNNRPLEAMSVLSDGVHSVTAQCALRVTTITDEMLTSHITLRLDMDGPER	1140
Db	1081	ELKLSRALDNNRPLEAMSVLSDGVHSVTAQCALRVTTITDEMLTSHITLRLDMDGPER	1140

1141 QY FLSPLLLGLPIQAVATLTPDHVVVFNVDTPDAPGGHILNLSVLSVQPPGCGGPPFL 1200
1141 Db FLSPLLLGLPIQAVATLTPDHVVVFNVDTPDAPGGHILNLSVLSVQPPGCGGPPFL 1200
1201 QY PSEDIQERLYLNRSLITAI SAQRVLPPDDNICLRPCENYMRCSVLRFDSAPFIASSS 1260
1201 Db PSEDIQERLYLNRSLITAI SAQRVLPPDDNICLRPCENYMRCSVLRFDSAPFIASSS 1260
1261 QY VLFPRIPHVGLRCRCPPGFTGDIYCEVTEVDLCYSRPPGPHGRCSRREGGYTCLCRDGYTG 1320
1261 Db VLFPRIPHVGLRCRCPPGFTGDIYCEVTEVDLCYSRPPGPHGRCSRREGGYTCLCRDGYTG 1320
1321 QY EHCVEARSRGCTPGVCNKGTCVNLLVGGFKDCPSGDFEKPVCQVTRSPFAHSRITF 1380
1321 Db EHCVEARSRGCTPGVCNKGTCVNLLVGGFKDCPSGDFEKPVCQVTRSPFAHSRITF 1380
1381 QY RGLRQRFHTLALSFATKERDGLLYNGRFNEKHDFVALEVIQEQVLTFSAGESSTTVS 1440
1381 Db RGLRQRFHTLALSFATKERDGLLYNGRFNEKHDFVALEVIQEQVLTFSAGESSTTVS 1440
1441 QY PFVPGGVSDGQWHTVQLYKYNKPLLGOTGLPQGPSEBQKVAWVVDGCTGVALLRFGSVLG 1500
1441 Db PFVPGGVSDGQWHTVQLYKYNKPLLGOTGLPQGPSEBQKVAWVVDGCTGVALLRFGSVLG 1500
1501 QY NYSCAAQGTQGSKSLDLTGPLLLGGVDPDLPESPFVPMRQFVGMNLOVDSRHIDMAD 1560
1501 Db NYSCAAQGTQGSKSLDLTGPLLLGGVDPDLPESPFVPMRQFVGMNLOVDSRHIDMAD 1560
1561 QY FIANNGTVPGPCAKNVCDSTCHNGGTCVNQWDAFSCCEPLGFGKSCAEMANPOHFL 1620
1561 Db FIANNGTVPGPCAKNVCDSTCHNGGTCVNQWDAFSCCEPLGFGKSCAEMANPOHFL 1620
1621 QY GSSLVAMHGLSLPISQWYLSIMFRTRQADGVLLQAITRGRSTITLQLRBHVMLSVBGT 1680
1621 Db GSSLVAMHGLSLPISQWYLSIMFRTRQADGVLLQAITRGRSTITLQLRBHVMLSVBGT 1680
1681 QY GLQASSILRLEPRANDGWHHAQALGASGFGHAILSFYDQQAEGNLGRLHGLHLS 1740
1681 Db GLQASSILRLEPRANDGWHHAQALGASGFGHAILSFYDQQAEGNLGRLHGLHLS 1740
1741 QY NITVGGIPGPAGVGARGCLQGVRSVDTPEGVNSLDPHGESINVEQGCSPDPCDSN 1800
1741 Db NITVGGIPGPAGVGARGCLQGVRSVDTPEGVNSLDPHGESINVEQGCSPDPCDSN 1800
1801 QY PCPANSYCSNDWDSYSCSDPGYTGDNCTVCDLNPCEHQSVCTRKPSAPHGYTCECPPN 1860
1801 Db PCPANSYCSNDWDSYSCSDPGYTGDNCTVCDLNPCEHQSVCTRKPSAPHGYTCECPPN 1860
1861 QY YLGPYCETRIDQPCPRGHWGHTPCPCNCDVSKGFDPCDKNTSGECHKENHYRPPGSP 1920
1861 Db YLGPYCETRIDQPCPRGHWGHTPCPCNCDVSKGFDPCDKNTSGECHKENHYRPPGSP 1920
1921 QY CLLCDDCYPTGSLSRVCDPDCQCKPGVIGRQCDRCNDNPFPAEVTITNGCEVNYDSCPRAI 1980
1921 Db CLLCDDCYPTGSLSRVCDPDCQCKPGVIGRQCDRCNDNPFPAEVTITNGCEVNYDSCPRAI 1980
1981 QY EAGIWWPRTRFGLPAAAPCPKGSFGTAVRHCDHRGMLPPNLFNCTSTITFSELKGFABRL 2040
1981 Db EAGIWWPRTRFGLPAAAPCPKGSFGTAVRHCDHRGMLPPNLFNCTSTITFSELKGFABRL 2040
2041 QY QRNESGLDSGRSQOIALLLRNATQHTAGYFGSDVKVAYQLATRLLAHSTQRGFLSATQ 2100
2041 Db QRNESGLDSGRSQOIALLLRNATQHTAGYFGSDVKVAYQLATRLLAHSTQRGFLSATQ 2100
2101 QY DVHETENLRVGSALLDTANKRHVELLOOTEGGTAWLLQHYEAYASALQNMRTYLSPP 2160
2101 Db DVHETENLRVGSALLDTANKRHVELLOOTEGGTAWLLQHYEAYASALQNMRTYLSPP 2160
2161 QY TIVTPNIVISVRLDKGNFAGAKLPRYEALRGEOPPDLETTVILPESVFRETTPVVRPAG 2220
2161 Db TIVTPNIVISVRLDKGNFAGAKLPRYEALRGEOPPDLETTVILPESVFRETTPVVRPAG 2220
2221 QY PGEAQEPEELARRORRHPELSQGEAVASVIIYRTLAGLLPHNYDPDKRSLRVPKRPINT 2280

2221 Db PGEAQEPEELARRORRHPELSQGEAVASVIIYRTLAGLLPHNYDPDKRSLRVPKRPINT 2280
2281 QY PVVSI SVHDDBELPRALDKPVTQVRLLETEERTKPICVFNWHSILVSGTGGWSARGCE 2340
2281 Db PVVSI SVHDDBELPRALDKPVTQVRLLETEERTKPICVFNWHSILVSGTGGWSARGCE 2340
2341 QY VVFNESHVSQCCHMTSFAVLMVDSRRENGEIIPLKLTLYVALGVTLAALLTFFFTL 2400
2341 Db VVFNESHVSQCCHMTSFAVLMVDSRRENGEIIPLKLTLYVALGVTLAALLTFFFTL 2400
2401 QY LRIIRSNQHGIRRNLTAAQLAQLVFLGINQADLPRACTVIAILLHLYLCTFSWALLE 2460
2401 Db LRIIRSNQHGIRRNLTAAQLAQLVFLGINQADLPRACTVIAILLHLYLCTFSWALLE 2460
2461 QY ALHLRYALTEVRDVTNTGPMRFYMLGMGVPAFIITGLAVGLDPEGYGNPDFCWLSIYDTLI 2520
2461 Db ALHLRYALTEVRDVTNTGPMRFYMLGMGVPAFIITGLAVGLDPEGYGNPDFCWLSIYDTLI 2520
2521 QY WSPFAGPVAFVMSVFLYILAARASCAAQORGFEKKGPVSGLOPSFAVLLLSATWLLAL 2580
2521 Db WSPFAGPVAFVMSVFLYILAARASCAAQORGFEKKGPVSGLOPSFAVLLLSATWLLAL 2580
2581 QY LSVNSDTLLPHYLATCNCIOGPFIFLSYVVLSEVRKALKACSRKPSDPALTTKSTL 2640
2581 Db LSVNSDTLLPHYLATCNCIOGPFIFLSYVVLSEVRKALKACSRKPSDPALTTKSTL 2640
2641 QY TSSYNCPSPVADGRLYQPYGDSAGSLHSTSRGSKSQPSYIPFLREESALNPGQPPGLG 2700
2641 Db TSSYNCPSPVADGRLYQPYGDSAGSLHSTSRGSKSQPSYIPFLREESALNPGQPPGLG 2700
2701 QY DPGSLFLEGQDQDHPDSDSDLSLEDDQGSVASTHSSDSEEEEEEEBEEAAPPGSQG 2760
2701 Db DPGSLFLEGQDQDHPDSDSDLSLEDDQGSVASTHSSDSEEEEEEEBEEAAPPGSQG 2760
2761 QY WDSLGLGABRLPLHSTPKDGGPGKAPWPGDFTTAKSSGNGAPERLRENGDALSR 2820
2761 Db WDSLGLGABRLPLHSTPKDGGPGKAPWPGDFTTAKSSGNGAPERLRENGDALSR 2820
2821 QY EGSGLPLPGSSAOPHKGILKKKCLPTISEKSSLLRLPLEQCTGSSRGSASSESGSGRGGPPP 2880
2821 Db EGSGLPLPGSSAOPHKGILKKKCLPTISEKSSLLRLPLEQCTGSSRGSASSESGSGRGGPPP 2880
2881 QY RPPRQSLQELNGVMPMIAMSIKAGTVDEDSGSEFFLFFNFHL 2923
2881 Db RPPRQSLQELNGVMPMIAMSIKAGTVDEDSGSEFFLFFNFHL 2923

RESULT 5

US-10-120-801-53
; Sequence 53, Application US/10120801
; Publication No. US20030203843A1
; GENERAL INFORMATION:
; APPLICANT: Pena, Carol
; APPLICANT: Guo, Xiaojia
; APPLICANT: Shimkets, Richard
; APPLICANT: Padigar, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly
; APPLICANT: Mehraban, Fuad
; APPLICANT: Topper, James N.
; APPLICANT: Malyankar, Uriel
; APPLICANT: Wasserman, Scott
; APPLICANT: Edinger, Shlomit
; APPLICANT: Smithson, Glenda
; APPLICANT: Gunther, Erik
; APPLICANT: Komuves, Laszlo
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-340
; CURRENT APPLICATION NUMBER: US/10/120,801
; CURRENT FILING DATE: 2002-04-11
; PRIOR APPLICATION NUMBER: 60/285748
; PRIOR FILING DATE: 2001-04-23

PRIOR APPLICATION NUMBER: 60/286068 PRIOR FILING DATE: 2001-04-24 PRIOR APPLICATION NUMBER: 60/286292 PRIOR FILING DATE: 2001-04-25 PRIOR APPLICATION NUMBER: 60/288334 PRIOR FILING DATE: 2001-05-03 PRIOR APPLICATION NUMBER: 60/291241 PRIOR FILING DATE: 2001-05-16 PRIOR APPLICATION NUMBER: 60/322284 PRIOR FILING DATE: 2001-09-14 PRIOR APPLICATION NUMBER: 60/285609 PRIOR FILING DATE: 2001-04-20 NUMBER OF SEQ ID NOS: 155 SOFTWARE: PatentIn Ver. 2.1 SEQ ID NO 53 LENGTH: 2923 TYPE: PRT ORGANISM: Drosophila melanogaster US-10-120-801-53									
Query Match 100.0%; Score 15545; DB 15; Length 2923; Best Local Similarity 100.0%; Pred. No. 0; Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;									
Qy	1	MRSPATGVPLPTPPPPPLLLLLLLLLPPPLGGDVGPCRSIGSRGSSGACAPMGWLCPS	60						
Db	1	MRSPATGVPLPTPPPPPLLLLLLLLLPPPLGGDVGPCRSIGSRGSSGACAPMGWLCPS	60						
Qy	61	SASNLWLYTSRCRDAGTGLHVLPHHDGLRVNCPSEAHIPPLPAPEGCPMSCLLIGIG	120						
Db	61	SASNLWLYTSRCRDAGTGLHVLPHHDGLRVNCPSEAHIPPLPAPEGCPMSCLLIGIG	120						
Qy	121	GHLSPQGLKLPEHPHCLKAPRLRCQSKLAQAPGLRAGERSPEESIGRRKKNVNTAQ	180						
Db	121	GHLSPQGLKLPEHPHCLKAPRLRCQSKLAQAPGLRAGERSPEESIGRRKKNVNTAQ	180						
Qy	181	FQPPSYQATVPENQAGTPVASIRAIIDPDEGEAGLEVTMDALFDSRSNQFSLDPTGA	240						
Db	181	FQPPSYQATVPENQAGTPVASIRAIIDPDEGEAGLEVTMDALFDSRSNQFSLDPTGA	240						
Qy	241	VTTAEELDRKTSHTHFRVTAQDHGMPRRSALATLTLVTDNDHPDPVFEQYKESLRE	300						
Db	241	VTTAEELDRKTSHTHFRVTAQDHGMPRRSALATLTLVTDNDHPDPVFEQYKESLRE	300						
Qy	301	NLEVGYEVLTVRATDGDAPPANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPDREV	360						
Db	301	NLEVGYEVLTVRATDGDAPPANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPDREV	360						
Qy	361	ESYQLTVEASDQGRDPRSTTAAVFLSVEDDDNDNAPQFSEKRYVQVREDVTPGAPVLR	420						
Db	361	ESYQLTVEASDQGRDPRSTTAAVFLSVEDDDNDNAPQFSEKRYVQVREDVTPGAPVLR	420						
Qy	421	VTASDRDKGSNAVHYHYSIMSGNARGQFYLDQAQTGALDWSPLDYETTKYTLRVRAQDG	480						
Db	421	VTASDRDKGSNAVHYHYSIMSGNARGQFYLDQAQTGALDWSPLDYETTKYTLRVRAQDG	480						
Qy	481	RPPLSNVSGLVTVQVLIDINNAPIFVSTPFOATVLESVPLGYLVHQAIDADAGNARL	540						
Db	481	RPPLSNVSGLVTVQVLIDINNAPIFVSTPFOATVLESVPLGYLVHQAIDADAGNARL	540						
Qy	541	EYRLAGVGHDPFTTNGTGWISVAEELDREEDVFPYSGVEARDHGTTPALTASASVTV	600						
Db	541	EYRLAGVGHDPFTTNGTGWISVAEELDREEDVFPYSGVEARDHGTTPALTASASVTV	600						
Qy	601	LDVNDNNPTFTQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVITYQITSGNTNRFSITS	660						
Db	601	LDVNDNNPTFTQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVITYQITSGNTNRFSITS	660						
Qy	661	QSGGLVSLALPLDYKLERQVLAVTASDGTRODTAQIVNVNTDANTHRVPFOSSHVTN	720						
Db	661	QSGGLVSLALPLDYKLERQVLAVTASDGTRODTAQIVNVNTDANTHRVPFOSSHVTN	720						
Qy	721	VNEDRPAGTTVVLLSATDEDTGENARITYFMEDSIPOFRIDADTGA VTTQAELEDYEDQVS	780						

Db 1801 PCPANSYCSNDWSDVSCSDPGYTGDNCTNVCDLNPCEHQSVCTRKPSAPHGTYCECPNP 1860

Qy 1861 YLGPYCETRIIDQPCPRGWWGHTPCGNCNDVSKGFDPCDNKTSGECHKENHYRPPGSPT 1920

Db 1861 YLGPYCETRIIDQPCPRGWWGHTPCGNCNDVSKGFDPCDNKTSGECHKENHYRPPGSPT 1920

Qy 1921 CLLGDCYPTGSLSRVCDPDCQCPKPGVIGROCDRCNDPFAEVTNGCEVNYDSCPRAI 1980

Db 1921 CLLGDCYPTGSLSRVCDPDCQCPKPGVIGROCDRCNDPFAEVTNGCEVNYDSCPRAI 1980

Qy 1981 EAGIWWPRTRGLPAAAPCPKSGFCTAVRHCDHRGMLPNNFNCTSTTFSELKGFABRL 2040

Db 1981 EAGIWWPRTRGLPAAAPCPKSGFCTAVRHCDHRGMLPNNFNCTSTTFSELKGFABRL 2040

Qy 2041 QRNESGLDSGRSQQLALLRNATQHTAGYFGSDVKVAYQOLATRLLAHSTQRGFGLSATQ 2100

Db 2041 QRNESGLDSGRSQQLALLRNATQHTAGYFGSDVKVAYQOLATRLLAHSTQRGFGLSATQ 2100

Qy 2101 DVHFTENLLRVGSALLDTANKRHWEILQOTEGGTAWLLQHYEAVASALAQNMRTYLSPP 2160

Db 2101 DVHFTENLLRVGSALLDTANKRHWEILQOTEGGTAWLLQHYEAVASALAQNMRTYLSPP 2160

Qy 2161 TIVTPNIVISVVRLLDKGNFAGAKLPRYEALRGEOPDLETTVILPESVFRETPPVVRPAG 2220

Db 2161 TIVTPNIVISVVRLLDKGNFAGAKLPRYEALRGEOPDLETTVILPESVFRETPPVVRPAG 2220

Qy 2221 FGEAQEPEELARRQRHPPELSQGEAVASVIIYRTLGLLPHNYDPDKRSRVRPKRPIINT 2280

Db 2221 FGEAQEPEELARRQRHPPELSQGEAVASVIIYRTLGLLPHNYDPDKRSRVRPKRPIINT 2280

Qy 2281 PVWSISVHDDRELLPRALDKPVTVQFLLETEERTKPICVFWNHSILVSGTGGWSARGCE 2340

Db 2281 PVWSISVHDDRELLPRALDKPVTVQFLLETEERTKPICVFWNHSILVSGTGGWSARGCE 2340

Qy 2341 VVFNESHVSCQCNHMTSFALVMDVSRRENCEILPLKTLTVVALGVTLAALLFFFTL 2400

Db 2341 VVFNESHVSCQCNHMTSFALVMDVSRRENCEILPLKTLTVVALGVTLAALLFFFTL 2400

Qy 2401 LRILRSQHGIRRLNTAALGLAQLVFLGLINQADLPFACTVIAILLHFLYLCTFSWALLE 2460

Db 2401 LRILRSQHGIRRLNTAALGLAQLVFLGLINQADLPFACTVIAILLHFLYLCTFSWALLE 2460

Qy 2461 ALHLYRALTEVRDVTNGTMRYYMLGWGPFAFITGLAVGLDPEGYGNDPCWLSIYDTLI 2520

Db 2461 ALHLYRALTEVRDVTNGTMRYYMLGWGPFAFITGLAVGLDPEGYGNDPCWLSIYDTLI 2520

Qy 2521 WSPAGVAFVMSVVELYILAAASCAQROGFEKKGPVSGLOPSEFVILLLSATWLLAL 2580

Db 2521 WSPAGVAFVMSVVELYILAAASCAQROGFEKKGPVSGLOPSEFVILLLSATWLLAL 2580

Qy 2581 LSVNSDTLLFHLFATCNCIQGPFIFLSYVVLSEVRKALKIACSRKPSDPDPALTTKSTL 2640

Db 2581 LSVNSDTLLFHLFATCNCIQGPFIFLSYVVLSEVRKALKIACSRKPSDPDPALTTKSTL 2640

Qy 2641 TSSVNCSPYADGRLYOPYGDAGSLHSTSRSGKSQPSYIPFLLRRESALNPGQGPGLG 2700

Db 2641 TSSVNCSPYADGRLYOPYGDAGSLHSTSRSGKSQPSYIPFLLRRESALNPGQGPGLG 2700

Qy 2701 DPGSLFLEGQDQHDPTDSDLSLEDQSGSYASTHSSDEEEEEEAEAPPGEQ 2760

Db 2701 DPGSLFLEGQDQHDPTDSDLSLEDQSGSYASTHSSDEEEEEEAEAPPGEQ 2760

Qy 2761 WDSLGLPGAERLPLHSTPKCGPGPGKAPWGDGTTAKESGNGCAPERLRENGDALSR 2820

Db 2761 WDSLGLPGAERLPLHSTPKCGPGPGKAPWGDGTTAKESGNGCAPERLRENGDALSR 2820

Qy 2821 EGSGLPLPGSSAQPHKGLKKKCLPTISEKSSLLRLPLEQCTGSSRGSASSEGSRGGPPP 2880

Db 2821 EGSGLPLPGSSAQPHKGLKKKCLPTISEKSSLLRLPLEQCTGSSRGSASSEGSRGGPPP 2880

Qy 2881 RPPRQSLQEOELNGVMPITAMSIKAGTVDEDSGSEFLFFNFLH 2923

Db 2881 RPPRQSLQEOELNGVMPITAMSIKAGTVDEDSGSEFLFFNFLH 2923

RESULT 6

US-10-292-798-932
; Sequence 932, Application US/10292798
; Publication No. US20030235833A1
; GENERAL INFORMATION:

; APPLICANT: SUMA, MAKIKO
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAMA, YUTAKA
; APPLICANT: ABURATANI, HIROYUKI
; TITLE OF INVENTION: GUANOSINE TRIPHOSPHATE-BINDING PROTEIN COUPLED RECEPTORS
; FILE REFERENCE: 084335/166
; CURRENT APPLICATION NUMBER: US/10/292,798
; PRIOR FILING DATE: 2002-11-13
; PRIOR FILING DATE: 10/017,161
; PRIOR FILING DATE: 2001-12-18
; PRIOR FILING DATE: 2001-06-18
; NUMBER OF SEQ ID NOS: 2070
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 932

; LENGTH: 2923
; TYPE: PRT
; ORGANISM: Homo sapiens

US-10-292-798-932

Query Match 100.0%; Score 15545; DB 15; Length 2923;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRSPTATGVPILPTPPPPPLLLLLLLLLPPPLLDQGVGPCRSIGSRGSGGACAPMGWLCP 60

Db 1 MRSPTATGVPILPTPPPPPLLLLLLLLLPPPLLDQGVGPCRSIGSRGSGGACAPMGWLCP 60

Qy 61 SASNLWLYTSRCRDAGTGLTGLVPHDGLRVWCPESEAHILPLPAPGCPWSCLLIGT 120

Db 61 SASNLWLYTSRCRDAGTGLTGLVPHDGLRVWCPESEAHILPLPAPGCPWSCLLIGT 120

Qy 121 GHLSPOQKLTLPPEHPCLKAPRLRCQCKLAQAQGLRAGERSPEESLGGRRKRNVTAPQ 180

Db 121 GHLSPOQKLTLPPEHPCLKAPRLRCQCKLAQAQGLRAGERSPEESLGGRRKRNVTAPQ 180

Qy 181 FQPPSYQATVPENQAGTVPASLRAIDPDEGEACRLTYMDALFDSRSNQFFSLDPVTGA 240

Db 181 FQPPSYQATVPENQAGTVPASLRAIDPDEGEACRLTYMDALFDSRSNQFFSLDPVTGA 240

Qy 241 VTTAEELDRKTSHTHFRVTAQDHGMPRRSRALATLTILVTDTNDHDPVFEQOYKESLRE 300

Db 241 VTTAEELDRKTSHTHFRVTAQDHGMPRRSRALATLTILVTDTNDHDPVFEQOYKESLRE 300

Qy 301 NLEVGVEVLTVRATGDGAPNPNANILYRLLEGSGGSPSEVFEIDPRSGVIRTRGPDVREEV 360

Db 301 NLEVGVEVLTVRATGDGAPNPNANILYRLLEGSGGSPSEVFEIDPRSGVIRTRGPDVREEV 360

Qy 361 ESYQLTVEASDQGRDPGRSTTAAVFLSVEDDNDNAPQFSEKRYVYVQVREDVTGAPVLR 420

Db 361 ESYQLTVEASDQGRDPGRSTTAAVFLSVEDDNDNAPQFSEKRYVYVQVREDVTGAPVLR 420

Qy 421 VTASDRDKGSNAVHYHYSIMSGNARGQFYLDATQALDVVSLDYETTYKEYTLRVRAQOGG 480

Db 421 VTASDRDKGSNAVHYHYSIMSGNARGQFYLDATQALDVVSLDYETTYKEYTLRVRAQOGG 480

Qy 481 RPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLESVPLGVLVHQAIDADAGDNARL 540

Db 481 RPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLESVPLGVLVHQAIDADAGDNARL 540

Qy 541 EYRLAGVGHDFPPTTINNGTGWISVAEELDREVDYFSGVEARDHGTGPALTASASVTV 600

Db 541 EYRLAGVGHDFPPTTINNGTGWISVAEELDREVDYFSGVEARDHGTGPALTASASVTV 600

Qy 601 LDVNDNPPPTQPRYTVRLNEDAAVGTSVTVSAVDRDHAHSVIITYQITSGNTRNRFSLTS 660

Db 601 LDVNDNPPPTQPRYTVRLNEDAAVGTSVTVSAVDRDHAHSVIITYQITSGNTRNRFSLTS 660

Db 601 LDVNDNNPTFTQPEYTVRLNEDAAVGTSVVTVSAVDRDAHSVITYQITSGNTRNRFSPITS 660
Qy 661 QSGGELVSLALPLDYKLERQYVLAVTASDGTRODTAQIVVNVTDANTHRPVSQSHYTVN 720
Db 661 QSGGGLVSLALPLDYKLERQYVLAVTASDGTRODTAQIVVNVTDANTHRPVSQSHYTVN 720
Qy 721 VNEDRPAGTTVVILSATDEDTGNARITYFMEDSIPOFRIDADTGAVTTOAELDYEDQVS 780
Db 721 VNEDRPAGTTVVILSATDEDTGNARITYFMEDSIPOFRIDADTGAVTTOAELDYEDQVS 780
Qy 781 YTLAITARDNGIPQKSDTTTLEILVNDVNDNAPQFLRDSYQGSVYEDVPPFTSVLQISAT 840
Db 781 YTLAITARDNGIPQKSDTTTLEILVNDVNDNAPQFLRDSYQGSVYEDVPPFTSVLQISAT 840
Qy 841 DRDSGLNGRVYFTQGGDDGDGDPFIVESTSGIIVRTLRLDRENAQYVLRAYADKGMPP 900
Db 841 DRDSGLNGRVYFTQGGDDGDGDPFIVESTSGIIVRTLRLDRENAQYVLRAYADKGMPP 900
Qy 901 ARTPEMVTVTVDVNDNPPVFEQDEPDVFVEENSPIGLAVARTATDPDEGTNAQIMYQI 960
Db 901 ARTPEMVTVTVDVNDNPPVFEQDEPDVFVEENSPIGLAVARTATDPDEGTNAQIMYQI 960
Qy 961 VEGNIPFVQOLDIFSGBELTALVDLDYEDRPEYVLVIQATSAPLVSRATVHVRLLDRNDNP 1020
Db 961 VEGNIPFVQOLDIFSGBELTALVDLDYEDRPEYVLVIQATSAPLVSRATVHVRLLDRNDNP 1020
Qy 1021 PVLGNFELFNYYVNRSSFPGGAIGRPVPAHPDIDSLSITYFERGNELSLVLLNASTG 1080
Db 1021 PVLGNFELFNYYVNRSSFPGGAIGRPVPAHPDIDSLSITYFERGNELSLVLLNASTG 1080
Qy 1081 ELKLSRALDNNRPLEATMSVLSDGVHSTVAQCALRVIIITDEMLTHSITLRLDMSPER 1140
Db 1081 ELKLSRALDNNRPLEATMSVLSDGVHSTVAQCALRVIIITDEMLTHSITLRLDMSPER 1140
Qy 1141 FLSPLLGLFQAQAATLATPPDHVVNVQORDTADPGGHILNLSVSGPPGPGGPPFL 1200
Db 1141 FLSPLLGLFQAQAATLATPPDHVVNVQORDTADPGGHILNLSVSGPPGPGGPPFL 1200
Qy 1201 PSEDQLERLYNRLSLTAISAQRLVLPDDNI CLREPCENTMRCVSVLRFDSAPPTASS 1260
Db 1201 PSEDQLERLYNRLSLTAISAQRLVLPDDNI CLREPCENTMRCVSVLRFDSAPPTASS 1260
Qy 1261 VLFRPIHPVGLRCRCPGFTGDCETEVDLCYSRCPGPHGRCSREGGYTCLCRDGYTG 1320
Db 1261 VLFRPIHPVGLRCRCPGFTGDCETEVDLCYSRCPGPHGRCSREGGYTCLCRDGYTG 1320
Qy 1321 EHCEVSARSGRCTPGVCKNGGTCVNLVLVGGFKDCPSGDFEKPYCQVTTTSFPAHSFIIF 1380
Db 1321 EHCEVSARSGRCTPGVCKNGGTCVNLVLVGGFKDCPSGDFEKPYCQVTTTSFPAHSFIIF 1380
Qy 1381 RGLRQRFHTLALSFAFKBRDGLLLYNGRPNKHDFFVALEVIQEQVOLTFPSAGESTTTVS 1440
Db 1381 RGLRQRFHTLALSFAFKBRDGLLLYNGRPNKHDFFVALEVIQEQVOLTFPSAGESTTTVS 1440
Qy 1441 PFVPGGYSDGQWHTVOLKYNKPLLGOTGLPQGPSEOKVAVTVVDCDGTGVALRFGSVLG 1500
Db 1441 PFVPGGYSDGQWHTVOLKYNKPLLGOTGLPQGPSEOKVAVTVVDCDGTGVALRFGSVLG 1500
Qy 1501 NYSCAAQGTQGSKKSLDLTGPLLLGGVPDLPESPFVRMRQFVGCNMLQVDSRHIDMAD 1560
Db 1501 NYSCAAQGTQGSKKSLDLTGPLLLGGVPDLPESPFVRMRQFVGCNMLQVDSRHIDMAD 1560
Qy 1561 FIANNGTVPCKAKNVCDNSTCHNGGT CVNQMDAPSCBCEPLPGFGKSCAQEMANPOHFL 1620
Db 1561 FIANNGTVPCKAKNVCDNSTCHNGGT CVNQMDAPSCBCEPLPGFGKSCAQEMANPOHFL 1620
Qy 1621 GSSLVAMHGLSLPI SQPMYLSLMPFRTOADGVLLQAITRGRSTITLQREGHVMLSVEGT 1680
Db 1621 GSSLVAMHGLSLPI SQPMYLSLMPFRTOADGVLLQAITRGRSTITLQREGHVMLSVEGT 1680
Qy 1681 GLQASSLLEFGRANDGDWHHAQALGASGPGHAILSFYDYGQQRASGNLGPRLHGLHLS 1740
Db 1681 GLQASSLLEFGRANDGDWHHAQALGASGPGHAILSFYDYGQQRASGNLGPRLHGLHLS 1740

Qy 1741 NITVGGIPGAGGVARGCLQGVVSDTPTPEGVNSLDPSHGESINVEQCSLPDPCDSN 1800
Db 1741 NITVGGIPGAGGVARGCLQGVVSDTPTPEGVNSLDPSHGESINVEQCSLPDPCDSN 1800
Qy 1801 PCPANSYCSNDWDSDSYSCSDPGYVYDGNCTNVCDLNPCHEQSVCTRKPSPAPHYTCECPNP 1860
Db 1801 PCPANSYCSNDWDSDSYSCSDPGYVYDGNCTNVCDLNPCHEQSVCTRKPSPAPHYTCECPNP 1860
Qy 1861 YLGPYCETRIDQPCPRGWGHPTCGPCNCDVSKGDFDPCNKTSGECKENHYRPPGSP 1920
Db 1861 YLGPYCETRIDQPCPRGWGHPTCGPCNCDVSKGDFDPCNKTSGECKENHYRPPGSP 1920
Qy 1921 CLLCDYPTGSLSRVCDPEDGQCPKPGVIGROCDRCNDNPAEVTVTNGCEVNYDSCPRAI 1980
Db 1921 CLLCDYPTGSLSRVCDPEDGQCPKPGVIGROCDRCNDNPAEVTVTNGCEVNYDSCPRAI 1980
Qy 1981 EAGIWWPRTFRGLPAAAPCPKGSFGTAVRHCDHRGMLPPNLFNCTSIITFSELKGFAERL 2040
Db 1981 EAGIWWPRTFRGLPAAAPCPKGSFGTAVRHCDHRGMLPPNLFNCTSIITFSELKGFAERL 2040
Qy 2041 QRNESGLDSGRSQOIALLRNATQHTAGYFGSDVKVAYQALATRLLAHESRQRGLSATQ 2100
Db 2041 QRNESGLDSGRSQOIALLRNATQHTAGYFGSDVKVAYQALATRLLAHESRQRGLSATQ 2100
Qy 2101 DVHFTENLRVGSALLDTANKRHWELIQQTEGGTAWLLQHYEAVASALAQNMRTYLSPP 2160
Db 2101 DVHFTENLRVGSALLDTANKRHWELIQQTEGGTAWLLQHYEAVASALAQNMRTYLSPP 2160
Qy 2161 TIVTPNIVISVVRDLKGNFAGAKLPRYEALRGEOPDLETTVILPESVFRTPPVVRPAG 2220
Db 2161 TIVTPNIVISVVRDLKGNFAGAKLPRYEALRGEOPDLETTVILPESVFRTPPVVRPAG 2220
Qy 2221 PGEAQEPBELARRORRHPHELQSGEAVASVIIYRTLGLLPHNYDDPKESLRVPRPIINT 2280
Db 2221 PGEAQEPBELARRORRHPHELQSGEAVASVIIYRTLGLLPHNYDDPKESLRVPRPIINT 2280
Qy 2281 PVVSISSHDDRELLPRALDKPVTQFRILLEERTKPICVFNWHSILVSGTGWSARGCE 2340
Db 2281 PVVSISSHDDRELLPRALDKPVTQFRILLEERTKPICVFNWHSILVSGTGWSARGCE 2340
Qy 2341 VVFRNESHVSCQCNHMTSFAVLMDVSRRENGEILPLKTLTYVALGVTLLAALLTFFFLTL 2400
Db 2341 VVFRNESHVSCQCNHMTSFAVLMDVSRRENGEILPLKTLTYVALGVTLLAALLTFFFLTL 2400
Qy 2401 LRILRSNQHIGIRRNLTAAALGALVFLGIIQADLPFACTVIAILLHFLYLCSTSWALLE 2460
Db 2401 LRILRSNQHIGIRRNLTAAALGALVFLGIIQADLPFACTVIAILLHFLYLCSTSWALLE 2460
Qy 2461 ALHLRYALTEVRDVTNTPMRFYMLGWPAPFITGLAVGLDPEGVNDPFCWLSIYDFTLI 2520
Db 2461 ALHLRYALTEVRDVTNTPMRFYMLGWPAPFITGLAVGLDPEGVNDPFCWLSIYDFTLI 2520
Qy 2521 WSFAGFVAFVMSVFLYILAAASCAAQROGFEKKFVPSGLQPSFAVLLLSATWLLAL 2580
Db 2521 WSFAGFVAFVMSVFLYILAAASCAAQROGFEKKFVPSGLQPSFAVLLLSATWLLAL 2580
Qy 2581 LSVNSDITLLFHYLFATCNCIOGPFIFLSYVLSKEVRKALKLACSRKPSPPDALTTKSTL 2640
Db 2581 LSVNSDITLLFHYLFATCNCIOGPFIFLSYVLSKEVRKALKLACSRKPSPPDALTTKSTL 2640
Qy 2641 TSSYNCPSPYADGRLYQPYGDSAGSLHSTSRSKGSQPSYIPFLLRBSALNPGQPPGLG 2700
Db 2641 TSSYNCPSPYADGRLYQPYGDSAGSLHSTSRSKGSQPSYIPFLLRBSALNPGQPPGLG 2700
Qy 2701 DFGSLFLSEGQDQDHPDSDSDLSLEDDQSGSYASTHSSDESEEEEEEEEAAPPGSQG 2760
Db 2701 DFGSLFLSEGQDQDHPDSDSDLSLEDDQSGSYASTHSSDESEEEEEEEEAAPPGSQG 2760
Qy 2761 WDSLLGPGABRLPIPHSTPKDGGPGPKAPWPGDFGTTAKESGNGCAPERLRRENGDALSR 2820
Db 2761 WDSLLGPGABRLPIPHSTPKDGGPGPKAPWPGDFGTTAKESGNGCAPERLRRENGDALSR 2820

Qy 2821 EGSGLPLPGSSAOPHKGILKKKCLPTISEKSSLLRLPLEQCTGSSRGSASGSRGGPPP 2880
Db 2821 EGSGLPLPGSSAOPHKGILKKKCLPTISEKSSLLRLPLEQCTGSSRGSASGSRGGPPP 2880
Qy 2881 RPPRQSLQEOQLNGVMPILAMSIKAGTVDEDSGSEFLFFNPLH 2923
Db 2881 RPPRQSLQEOQLNGVMPILAMSIKAGTVDEDSGSEFLFFNPLH 2923

RESULT 7

US-10-038-854-70
; Sequence 70, Application US/10038854
; Publication No. US20040022781A1
; GENERAL INFORMATION:
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Li, Li
; APPLICANT: Wolenc, Adam R
; APPLICANT: Vernet, Corine
; APPLICANT: Eisen, Andrew J
; APPLICANT: Liu, Xiaohong
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Shimkets, Richard A
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spaderna, Steven K
; APPLICANT: Gorman, Linda
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Patturajan, Meera
; APPLICANT: Gusev, Vladimir Y
; APPLICANT: Gangolli, Esha A
; APPLICANT: Guo, Xiaojia S
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Rastelli, Luca
; APPLICANT: Casman, Stacie J
; APPLICANT: Boldog, Ferenc
; APPLICANT: Burgess, Catherine E
; APPLICANT: Edinger, Shlomit R
; APPLICANT: Ellerman, Karen
; APPLICANT: Gunther, Erik
; APPLICANT: Smithson, Glenda
; APPLICANT: Millet, Isabelle
; APPLICANT: MacDougall, John R
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-230
; CURRENT APPLICATION NUMBER: US/10/038,854
; CURRENT FILING DATE: 2003-01-22
; PRIOR APPLICATION NUMBER: 60/258,928
; PRIOR FILING DATE: 2000-12-29
; PRIOR APPLICATION NUMBER: 60/259,415
; PRIOR FILING DATE: 2001-01-02
; PRIOR APPLICATION NUMBER: 60/259,785
; PRIOR FILING DATE: 2001-01-04
; PRIOR APPLICATION NUMBER: 60/269,814
; PRIOR FILING DATE: 2001-02-20
; PRIOR APPLICATION NUMBER: 60/279,832
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/279,833
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/279,863
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/283,889
; PRIOR FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: 60/284,447
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/286,683
; PRIOR FILING DATE: 2001-04-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 411
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 70
; LENGTH: 2923
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-038-854-70

Query Match 100.0%; Score 15545; DB 15; Length 2923;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MRSPTATGVPPLTPPPPLLLLLLLLLPPPLGDOVGPCRSGLSGRSGGACAPMGLWCLPS 60
Db 1 MRSPTATGVPPLTPPPPLLLLLLLLLPPPLGDOVGPCRSGLSGRSGGACAPMGLWCLPS 60
Qy 61 SASNLWLYTSRCRDAGTGLTGHLPVHDGLRVWCPSESEAHIPLPAPGCPWSCRLIGIG 120
Db 61 SASNLWLYTSRCRDAGTGLTGHLPVHDGLRVWCPSESEAHIPLPAPGCPWSCRLIGIG 120
Qy 121 GHLSPOGKLTLPPEHPCLKAPRLCQSKLAQAPGLRAGERSPESLGGRRKRNVTAPQ 180
Db 121 GHLSPOGKLTLPPEHPCLKAPRLCQSKLAQAPGLRAGERSPESLGGRRKRNVTAPQ 180
Qy 181 FOPESYQATVPENOPAGTPVASLRAIDPDEGEACRLTYTMDALFDSRSNPFSLDPVTGA 240
Db 181 FOPESYQATVPENOPAGTPVASLRAIDPDEGEACRLTYTMDALFDSRSNPFSLDPVTGA 240
Qy 241 VTTAEELDRETCKSTHFRVTAQDHGMPRRSALATLTILVTDTNDHDPVFEQOEKESLRE 300
Db 241 VTTAEELDRETCKSTHFRVTAQDHGMPRRSALATLTILVTDTNDHDPVFEQOEKESLRE 300
Qy 301 NLEVGVEVLTVRATDGDAPPNANILYRLLEGGSGSPSEVFEIDPRSGVIRTRGPVDRREV 360
Db 301 NLEVGVEVLTVRATDGDAPPNANILYRLLEGGSGSPSEVFEIDPRSGVIRTRGPVDRREV 360
Qy 361 ESYOLTVEASDQGRDPGRSTTAAVFLSVEDDNNAPQFSEKRYVQVREVDVTPGAPVLR 420
Db 361 ESYOLTVEASDQGRDPGRSTTAAVFLSVEDDNNAPQFSEKRYVQVREVDVTPGAPVLR 420
Qy 421 VTASDRDKGSNAVVHYSIMSGNARGQFYLDATQATGALDVVSPLDYETTKETTLVRAQDGG 480
Db 421 VTASDRDKGSNAVVHYSIMSGNARGQFYLDATQATGALDVVSPLDYETTKETTLVRAQDGG 480
Qy 481 RPPLSNVSGLVTVQVLDINDNAPIFVSTPPQATVLESVPLGLYLHVQAIADADAGDNARL 540
Db 481 RPPLSNVSGLVTVQVLDINDNAPIFVSTPPQATVLESVPLGLYLHVQAIADADAGDNARL 540
Qy 541 EYRLAGVGHDPFPTINNGTGWISVAEELDREVDVFSFGVEARDHGTALFASASVTV 600
Db 541 EYRLAGVGHDPFPTINNGTGWISVAEELDREVDVFSFGVEARDHGTALFASASVTV 600
Qy 601 LDVNDNNPTFTQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVITYQITSGTRNRFISITS 660
Db 601 LDVNDNNPTFTQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVITYQITSGTRNRFISITS 660
Qy 661 QSGGLVSLALPLDYKLERQYVLAVTASDGTQDTAQIVVNVTDANTHRPVFQSSHVTN 720
Db 661 QSGGLVSLALPLDYKLERQYVLAVTASDGTQDTAQIVVNVTDANTHRPVFQSSHVTN 720
Qy 721 VNEDRPAGTTWVLISATDEDTGENARITYPMEDSIPQFRIDADTGAVTQAELEDYEDQVS 780
Db 721 VNEDRPAGTTWVLISATDEDTGENARITYPMEDSIPQFRIDADTGAVTQAELEDYEDQVS 780
Qy 781 YTLAITARDNGIPKSDTITYLEILVNDVNDNAPQFLRDSYQGSVVYEDVPFPTSVLQISAT 840
Db 781 YTLAITARDNGIPKSDTITYLEILVNDVNDNAPQFLRDSYQGSVVYEDVPFPTSVLQISAT 840
Qy 841 DRDSGLNGRVFVYTFQGGDDGDGDFIVESTGIGVTLRRLRDENVAQVYLRAVADKGMPP 900
Db 841 DRDSGLNGRVFVYTFQGGDDGDGDFIVESTGIGVTLRRLRDENVAQVYLRAVADKGMPP 900
Qy 901 ARTPEMVTVTVDVNDNPPVFEQDEFDVFVEENSPIGLAVARVTATDPDECTNAQIMYQI 960
Db 901 ARTPEMVTVTVDVNDNPPVFEQDEFDVFVEENSPIGLAVARVTATDPDECTNAQIMYQI 960
Qy 961 VEGNIPFVFDLIPFSGELTALVDLDYEDRPRPYLVIOATSAPLVSRAVTHVRLLDNDNP 1020
Db 961 VEGNIPFVFDLIPFSGELTALVDLDYEDRPRPYLVIOATSAPLVSRAVTHVRLLDNDNP 1020

1021 PVLGNFELFNNTYSSFFPGSAIGRVPADHPDIDSLSLTSFBERGNELSVLNASTG 1080
1021 PVLGNFELFNNTYSSFFPGSAIGRVPADHPDIDSLSLTSFBERGNELSVLNASTG 1080
1081 ELKLSRALDNNRPLEAIMSVLSDGVSHSVTAQCALRVTTITDEMLTHSITLRLDMSPER 1140
1081 ELKLSRALDNNRPLEAIMSVLSDGVSHSVTAQCALRVTTITDEMLTHSITLRLDMSPER 1140
1141 FLSPLLGLFTQAAVATLATPPDHVVFNVDRTDAPGHHILNLSVLVGPPGPGPPPL 1200
1141 FLSPLLGLFTQAAVATLATPPDHVVFNVDRTDAPGHHILNLSVLVGPPGPGPPPL 1200
1201 PSEDQLRLYNLSLTAISAQVLPDDNICUREPCENMRCVSVLRDSSAPFIASS 1260
1201 PSEDQLRLYNLSLTAISAQVLPDDNICUREPCENMRCVSVLRDSSAPFIASS 1260
1261 VLFPRIPHPVGLRCRCPPGFTGDYCEDEVLCYSRPGPHGRCSRREGGYTCLCRDGYTG 1320
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1321 EHCVSARSRCRTPGVCKNGGTCVNLVGGFKDCPSGDPPEKPYCQVTTSRPPAHSFITF 1380
1321 EHCVSARSRCRTPGVCKNGGTCVNLVGGFKDCPSGDPPEKPYCQVTTSRPPAHSFITF 1380
1381 RGLRQRFHTLALSFAKERDGLLLYNGRPNEXKHFVALLRVIQEOVLTFPSAGESITTVS 1440
1381 RGLRQRFHTLALSFAKERDGLLLYNGRPNEXKHFVALLRVIQEOVLTFPSAGESITTVS 1440
1441 PFVPGVSDGQWHTVQLKYNNKPLLGOTGLPQGSSEQKVAVTVDGDTCVALRFGSVLG 1500
1441 PFVPGVSDGQWHTVQLKYNNKPLLGOTGLPQGSSEQKVAVTVDGDTCVALRFGSVLG 1500
1501 NYSCAAQGTGGSKSLDGLTGPLLLGGVPLDPSFPVRMRQFVGCWRNLQVDSRHIDMAD 1560
1501 NYSCAAQGTGGSKSLDGLTGPLLLGGVPLDPSFPVRMRQFVGCWRNLQVDSRHIDMAD 1560
1561 FIANNGTVPCKPAKNCVDSNTCHNGGTCVNWDAFCECPLGPGKSCAQEMANPOHFL 1620
1561 FIANNGTVPCKPAKNCVDSNTCHNGGTCVNWDAFCECPLGPGKSCAQEMANPOHFL 1620
1621 GSSIVAMHGLSLPISQWYLSLMFRTRQADGVLLQAITGRSTITITLQREGHVMLSVEGT 1680
1621 GSSIVAMHGLSLPISQWYLSLMFRTRQADGVLLQAITGRSTITITLQREGHVMLSVEGT 1680
1681 GLOASSLRLEPRANDGDWHAQALCAGSGPGHAILISFDYGOORAEGLNLPRLHGLHS 1740
1681 GLOASSLRLEPRANDGDWHAQALCAGSGPGHAILISFDYGOORAEGLNLPRLHGLHS 1740
1741 NITVGGIPGAGGVARGFRGLQGVVSDTPEGVNSLDPHSGRSINVEQCCLPDPDCSN 1800
1741 NITVGGIPGAGGVARGFRGLQGVVSDTPEGVNSLDPHSGRSINVEQCCLPDPDCSN 1800
1801 PCPANSYCSNDWDYSYSCDPGGYGDNCTNVCDLNPCEHQSVCTRKPSAPHGYTCBCPPN 1860
1801 PCPANSYCSNDWDYSYSCDPGGYGDNCTNVCDLNPCEHQSVCTRKPSAPHGYTCBCPPN 1860
1861 YLGPYCETRIDQPCPRGWGHTPCPCNCDVSKGDPDCKNTSGBECKENHYRPPGSP 1920
1861 YLGPYCETRIDQPCPRGWGHTPCPCNCDVSKGDPDCKNTSGBECKENHYRPPGSP 1920
1921 CLLCDYPTGSLSRVCDPEDGQCPKPGVIGRQCDRCNDNPPAEVTTNGCEVNDYSCPRAI 1980
1921 CLLCDYPTGSLSRVCDPEDGQCPKPGVIGRQCDRCNDNPPAEVTTNGCEVNDYSCPRAI 1980
1981 EAGIWPRTREGLPAAAPCPKSGFTAVRHCDERHGLWLPNLFNCTISITSELSKGAERL 2040
1981 EAGIWPRTREGLPAAAPCPKSGFTAVRHCDERHGLWLPNLFNCTISITSELSKGAERL 2040
2041 QRNESGLDSGRSQOALLRNATQHTAGYFGSDVKVAYQIATRLLAHSTQRFGLSATQ 2100
2041 QRNESGLDSGRSQOALLRNATQHTAGYFGSDVKVAYQIATRLLAHSTQRFGLSATQ 2100
2101 DVHFTENLVRGSAALLDTANKRHWELIQTEGGGTAWLLQHYEAYASALANMRHTYLSPF 2160

2101 DVHFTENLVRGSAALLDTANKRHWELIQTEGGGTAWLLQHYEAYASALANMRHTYLSPF 2160
2161 TIVTPNIVISVVRLLDKGNFAGAKLPRYEALRGEOPPDLETTVILPESVFRTPPVVRPAG 2220
2161 TIVTPNIVISVVRLLDKGNFAGAKLPRYEALRGEOPPDLETTVILPESVFRTPPVVRPAG 2220
2221 PGEAQEPEELARRORRHPPELSQGEAVASVIIYRTLAGLLPHNDPDKRSURVPRKPIINT 2280
2221 PGEAQEPEELARRORRHPPELSQGEAVASVIIYRTLAGLLPHNDPDKRSURVPRKPIINT 2280
2281 PWSISVHDDDELLPRALDKPVTQVFRLLTEERTKPICVFVWNHSILVSGTGWMSARGCE 2340
2281 PWSISVHDDDELLPRALDKPVTQVFRLLTEERTKPICVFVWNHSILVSGTGWMSARGCE 2340
2341 VVFNESHVSCQCHMTSFAVLMDSVRRENGEILPLKTLTVVALGVTLAALLTFFFLTL 2400
2341 VVFNESHVSCQCHMTSFAVLMDSVRRENGEILPLKTLTVVALGVTLAALLTFFFLTL 2400
2401 LRILRSNOHGIRRNITAAQLAQLVFLILGINQADLPACTVIAILLHFLYLCTFWSWALLE 2460
2401 LRILRSNOHGIRRNITAAQLAQLVFLILGINQADLPACTVIAILLHFLYLCTFWSWALLE 2460
2461 ALHLYRALTEVRDVTNGPMRFYTMGLGMPAFITGLAVGLDPEGYGNPDFCMLSIDTLLI 2520
2461 ALHLYRALTEVRDVTNGPMRFYTMGLGMPAFITGLAVGLDPEGYGNPDFCMLSIDTLLI 2520
2521 WSPAGPVAFVMSVFLYILAAASCAAQROGPEKPGVSGLPSPAVLLLSATWLLAL 2580
2521 WSPAGPVAFVMSVFLYILAAASCAAQROGPEKPGVSGLPSPAVLLLSATWLLAL 2580
2581 LSVNSDTLFHYLFATNCIOGPFILSYVVLKSKVRKALKACSRKSPDPALTTKSTL 2640
2581 LSVNSDTLFHYLFATNCIOGPFILSYVVLKSKVRKALKACSRKSPDPALTTKSTL 2640
2641 TSSVNCPSPYADGRLYQPYGDSAGSLHSTSRSGKSQPSYIPFLLRBSALNPGQGPGLG 2700
2641 TSSVNCPSPYADGRLYQPYGDSAGSLHSTSRSGKSQPSYIPFLLRBSALNPGQGPGLG 2700
2701 DPGSLFLBEGQOQHDPTDSDLSLEDDQSGSVASTHSSDSEEEEEEEHAAFPGEQG 2760
2701 DPGSLFLBEGQOQHDPTDSDLSLEDDQSGSVASTHSSDSEEEEEEEHAAFPGEQG 2760
2761 WDSLGPCAERLPLHSTPKCGPGKAPWPGDFTTAKESSGNGAPERLRENGDALSR 2820
2761 WDSLGPCAERLPLHSTPKCGPGKAPWPGDFTTAKESSGNGAPERLRENGDALSR 2820
2821 EGSGLPLPGSSAQPHKGLKKKCLPTTISEKSSLLRPLLEQCTGSSRGSSASEGRGQPPP 2880
2821 EGSGLPLPGSSAQPHKGLKKKCLPTTISEKSSLLRPLLEQCTGSSRGSSASEGRGQPPP 2880
2881 RPPPRQSLQEQNLGVMPIAMSIKAGTVDEDSGSEFLFFNFHLH 2923
2881 RPPPRQSLQEQNLGVMPIAMSIKAGTVDEDSGSEFLFFNFHLH 2923

RESULT 8

US-09-788-711A-2
; Sequence 2, Application US/09788711A
; Patent No. US20020058328A1
; GENERAL INFORMATION:
; APPLICANT: Tania Tamsin Testa
; TITLE OF INVENTION: NOVEL COMPOUNDS
; FILE REFERENCE: GP-30225
; CURRENT APPLICATION NUMBER: US/09/788,711A
; CURRENT FILING DATE: 2001-02-20
; PRIOR APPLICATION NUMBER: 0004196.2
; PRIOR FILING DATE: 2000-02-19
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq For Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 2956
; TYPE: PRT

; ORGANISM: HOMO SAPIENS
US-09-788-711A-2

Query Match 99.8%; Score 15518.5; DB 9; Length 2956;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 2923; Conservative 0; Mismatches 0; Indels 33;

Qy	1	MRSPATGVPLPTPPPPPLLLLLLLLLPPPLLDQVGPCBSLGSRGSGSGCAPMGWLCP	60
Db	1	MRSPATGVPLPTPPPPPLLLLLLLLLPPPLLDQVGPCBSLGSRGSGSGCAPMGWLCP	60
Qy	61	SASNLWLYTSRCRDAGTETLGHVPHHDGLRWVCPESEAHPLPPAPEGCPWSCRLLG	120
Db	61	SASNLWLYTSRCRDAGTETLGHVPHHDGLRWVCPESEAHPLPPAPEGCPWSCRLLG	120
Qy	121	GHLSPOQKLTLPESHPCLKAPLRCQSCUKLAQAPGLRAGERSPESLGGRRKRNWNTAPQ	180
Db	121	GHLSPOQKLTLPESHPCLKAPLRCQSCUKLAQAPGLRAGERSPESLGGRRKRNWNTAPQ	180
Qy	181	FQPPSYQATVPENOPAGTPVASLRAIDPDEGEAGRLVYTMALFDSRSNQFSLDPVTGA	240
Db	181	FQPPSYQATVPENOPAGTPVASLRAIDPDEGEAGRLVYTMALFDSRSNQFSLDPVTGA	240
Qy	241	VTTABEELDRETKSTHVFRTVAQDHGMPRRSALATLTILVTDNDHPVFEQOEKESLRE	300
Db	241	VTTABEELDRETKSTHVFRTVAQDHGMPRRSALATLTILVTDNDHPVFEQOEKESLRE	300
Qy	301	NLEVGVEVLTVRADGDGAPNNANTLYLLLEGSGSGSPSEVPEIDPRSGVIRTRGVPDREEV	360
Db	301	NLEVGVEVLTVRADGDGAPNNANTLYLLLEGSGSGSPSEVPEIDPRSGVIRTRGVPDREEV	360
Qy	361	ESYQLTVEASDQGRDGPGRSTTAAVFLSVEDNDNAPQFSEKRVVQVREDVTPGAPVLR	420
Db	361	ESYQLTVEASDQGRDGPGRSTTAAVFLSVEDNDNAPQFSEKRVVQVREDVTPGAPVLR	420
Qy	421	VITASDRDKGSNAVHYHYSIMSGNARGQFYLDAOTGALDVWSPLDYETTKYEYTLRVRAODGG	480
Db	421	VITASDRDKGSNAVHYHYSIMSGNARGQFYLDAOTGALDVWSPLDYETTKYEYTLRVRAODGG	480
Qy	481	RPPLSNVSGLVTVQVLDINDNAPITFVSTPQATVLESVPLGYLVHLVQADADAGDNARL	540
Db	481	RPPLSNVSGLVTVQVLDINDNAPITFVSTPQATVLESVPLGYLVHLVQADADAGDNARL	540
Qy	541	EYRLAGVGHDPPTFNNGTGHWISVAEELDREEDVDFYSGVEARDHGTPTALTASASVTV	600
Db	541	EYRLAGVGHDPPTFNNGTGHWISVAEELDREEDVDFYSGVEARDHGTPTALTASASVTV	600
Qy	601	LDVNDNPPFTTQPEYTVRLNEDAAVGSVTVTSAVDRDAHSVITVQITSGNTRNRFSITS	660
Db	601	LDVNDNPPFTTQPEYTVRLNEDAAVGSVTVTSAVDRDAHSVITVQITSGNTRNRFSITS	660
Qy	661	QSGGGLVSLALPLDYKLERQYVLAVTASDGTQPTAQIVNVNTDANTHRPVPQSHSYTVN	720
Db	661	QSGGGLVSLALPLDYKLERQYVLAVTASDGTQPTAQIVNVNTDANTHRPVPQSHSYTVN	720
Qy	721	VNEDRPAGTTVWLISATDEDTGENARITYFWEDSIPOFRIDADPGAVTTQAEILDYEDQVS	780
Db	721	VNEDRPAGTTVWLISATDEDTGENARITYFWEDSIPOFRIDADPGAVTTQAEILDYEDQVS	780
Qy	781	YTLAITARDNGIPKSDTTTYLEILVNDVNDNAPQFLRDSYQGSYVEDVPPPTSVLQISAT	840
Db	781	YTLAITARDNGIPKSDTTTYLEILVNDVNDNAPQFLRDSYQGSYVEDVPPPTSVLQISAT	840
Qy	841	DRDSGLNGRVFYTFQGGDGDGDPFIVESTSGIVETLRLRLDRENVAQYVLRAIYAVDKGMPP	900
Db	841	DRDSGLNGRVFYTFQGGDGDGDPFIVESTSGIVETLRLRLDRENVAQYVLRAIYAVDKGMPP	900
Qy	901	ARTPMEVTVTVLDVNDNPPVFQODEFQVFEENSPIGLAVARVATATDPDEGTNAQIMYOI	960
Db	901	ARTPMEVTVTVLDVNDNPPVFQODEFQVFEENSPIGLAVARVATATDPDEGTNAQIMYOI	960
Qy	961	VEGNIPEVFOIDIFSGBELTALVDLDYEDRPEYVLVIQATSAPLVSRATVHVRLLRDNDNP	1020

Qy 2101 DVHFTENLRVGSALLDTANKRWELIQQTEGCTAMLQHYEAYASALANRHTYLSFP 2160
 Db 2101 DVHFTENLRVGSALLDTANKRWELIQQTEGCTAMLQHYEAYASALANRHTYLSFP 2160
 Qy 2161 TIVTPNIVISVRLDKGNFAGAKLPRYEALRGQPPDLETTVILPESVFRETPPVVRPAG 2220
 Db 2161 TIVTPNIVISVRLDKGNFAGAKLPRYEALRGQPPDLETTVILPESVFRETPPVVRPAG 2220
 Qy 2221 PGEAQBEEELARQRHPELSQGEAVASVIIYRTLAGLPHNYDPPKRSRVPKRPINT 2280
 Db 2221 PGEAQBEEELARQRHPELSQGEAVASVIIYRTLAGLPHNYDPPKRSRVPKRPINT 2280
 Qy 2281 FVWSISVHDDDELLPRALDKPVTQORLLEETERTKPICVFNHNSILVSGTGWARGCE 2340
 Db 2281 FVWSISVHDDDELLPRALDKPVTQORLLEETERTKPICVFNHNSILVSGTGWARGCE 2340
 Qy 2341 VVFNESHVSCQCNHMTSFVAVLMDVSRRENGEILPLKLTYYVALGVTLAALLITFFFLTL 2400
 Db 2341 VVFNESHVSCQCNHMTSFVAVLMDVSRRENGEILPLKLTYYVALGVTLAALLITFFFLTL 2400
 Qy 2401 LRILRSNQHGRNRLTAALGLAQVFLGNGINQADLPFACTVIAILLHFLYLCFTFWALL 2460
 Db 2401 LRILRSNQHGRNRLTAALGLAQVFLGNGINQADLPFACTVIAILLHFLYLCFTFWALL 2460
 Qy 2461 ALHLRYALTEVRDVTGPMRFYMLGWPVAFITGLAVGLDPGEGNDFCWLSIYDTLI 2520
 Db 2461 ALHLRYALTEVRDVTGPMRFYMLGWPVAFITGLAVGLDPGEGNDFCWLSIYDTLI 2520
 Qy 2521 WSPAGVAVAFVMSVFLYILAAASCAAOQGEKGPVSGLOPSPAVLILLISATWLLAL 2580
 Db 2521 WSPAGVAVAFVMSVFLYILAAASCAAOQGEKGPVSGLOPSPAVLILLISATWLLAL 2580
 Qy 2581 LSVNSDTLLFHYLFATCNCIQGPFIFLSYVVLKSVRKAALKACSRKSPDPALTKSTL 2640
 Db 2581 LSVNSDTLLFHYLFATCNCIQGPFIFLSYVVLKSVRKAALKACSRKSPDPALTKSTL 2640
 Qy 2641 TSSVNCSPVADGRLYQYGDASGLHSTSRSGKSPSYIPFLRESALNPGQPPGLG 2700
 Db 2641 TSSVNCSPVADGRLYQYGDASGLHSTSRSGKSPSYIPFLRESALNPGQPPGLG 2700
 Qy 2701 DPGSLFLEGQDQHDPTDSDSLSDSDSGSYASTHSDSEEEEEEAAFPGEQG 2760
 Db 2701 DPGSLFLEGQDQHDPTDSDSLSDSDSGSYASTHSDSEEEEEEAAFPGEQG 2760
 Qy 2761 WDSLGPGBAERLPLHSTPKDGPBGKAPWPGFGTTAKESSGNGAPAEERLRNGDALSR 2820
 Db 2761 WDSLGPGBAERLPLHSTPKDGPBGKAPWPGFGTTAKESSGNGAPAEERLRNGDALSR 2820
 Qy 2821 EGSGLPLPGSSAQBHK-----GILKKKCLPTI 2847
 Db 2821 EGSGLPLPGSSAQBHK-----GILKKKCLPTI 2880
 Qy 2848 SEKSLRLPLEOCTGSSRGSASSEGSGGPPPPRPPRQSLQQLNGWPIAMSIKAGTV 2907
 Db 2848 SEKSLRLPLEOCTGSSRGSASSEGSGGPPPPRPPRQSLQQLNGWPIAMSIKAGTV 2940
 Qy 2908 DEDSSGSEFLFFNPLH 2923
 Db 2941 DEDSSGSEFLFFNPLH 2956

RESULT 9
 US-10-311-623-9
 ; Sequence 9, Application US/10311623
 ; Publication No. US20040023244A1
 ; GENERAL INFORMATION:
 ; APPLICANT: INCYTE GENOMICS, INC.; GRIFFIN, Jennifer A.
 ; APPLICANT: KALLICK, Deborah A.; TRIBOULET, Catherine M.
 ; APPLICANT: YUE, Henry; NGUYEN, Dannel B.
 ; APPLICANT: TANG, Y. Tom; LAL, Preeti G.
 ; APPLICANT: POLICKY, Jennifer L.; AZIMZAI, Valda
 ; APPLICANT: LU, Dying Aina M.; GRAUL, Richard C.

; APPLICANT: YAO, Monique G.; BURFORD, Neil
 ; APPLICANT: HAPALIA, April J. A.; BAUGHN, Mariah R.
 ; APPLICANT: BANDMAN, Olga; ARVIZU, Chandra S.
 ; APPLICANT: YANG, Junning; XU, Yuming
 ; APPLICANT: GANDHI, Ameena R.; WARREN, Bridget A.
 ; APPLICANT: DING, Li; SANJANWALA, Madhusudan M.
 ; APPLICANT: DUGGAN, Brendan M.; LU, Yan
 ; TITLE OF INVENTION: RECEPTORS
 ; FILE REFERENCE: PP-0793 USN
 ; CURRENT APPLICATION NUMBER: US/10/311.623
 ; CURRENT FILING DATE: 2002-12-17
 ; PRIOR APPLICATION NUMBER: US 01/19942
 ; PRIOR FILING DATE: 2001-06-21
 ; PRIOR APPLICATION NUMBER: US 60/214,027
 ; PRIOR FILING DATE: 2000-06-21
 ; PRIOR APPLICATION NUMBER: US 60/228,045
 ; PRIOR FILING DATE: 2000-08-25
 ; PRIOR APPLICATION NUMBER: US 60/255,104
 ; PRIOR FILING DATE: 2000-12-12
 ; NUMBER OF SEQ ID NOS: 24
 ; SOFTWARE: PERL Program
 ; SEQ ID NO 9
 ; LENGTH: 2936
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; OTHER INFORMATION: Incyte ID No. US20040023244A1 6977010CD1
 US-10-311-623-9

Query Match 98.3%; Score 15279; DB 15; Length 2936;
 Best Local Similarity 98.4%; Pred. No. 0;
 Matches 2893; Conservative 2; Mismatches 14; Indels 32; Gaps 8;
 Qy 1 MRSPTATGVPLPT-PPPLLLLLLLLLPPPLGQGVGCRSLGSRGSSGACAPMWLCP 59
 Db 1 MRSPTATGVPLPTPPPPPLLLLLLLLLPPPLGQGVGCRSLGSRGSSGACAPMWLCP 60
 Qy 60 SSASNLWLYTSRCRDAGTGTGHLVPHHDGLRVWCPSEAHILPPPAPEGCPNSCRLLGI 119
 Db 61 SSASNLWLYTSRCRDAGTGTGHLVPHHDGLRVWCPSEAHILPPPAPEGCPNSCRLLGI 120
 Qy 120 GGHLSPOQKLTLPBHPCLKAPRLRCOSCKLAQAPGLRAGERSPEESLGGRRKENVNTAP 179
 Db 121 GGHLSPOQKLTLPBHPCLKAPRLRCOSCKLAQAPGLRAGERSPEESLGGRRKENVNTAP 180
 Qy 180 QFPPSYQATVPENQAGTVPASLRAIDPDEGEAGRLTYTMDALFDSRSNQFFSLDPVTG 239
 Db 181 QFPPSYQATVPENQAGTVPASLRAIDPDEGEAGRLTYTMDALFDSRSNQFFSLDPVTG 240
 Qy 240 AVTTAEELDRKSTHVFRTAODHGMPPRRSALATLILATDTHDHPVEQEQKESLR 299
 Db 241 AVTTAEELDRKSTHVFRTAODHGMPPRRSALATLILATDTHDHPVEQEQKESLR 300
 Qy 300 ENLEVGVEVLTVRATDGDAPPNANILVRLLEGSGSPSEVEIPDRSGVITRGPVDREE 359
 Db 301 ENLEVGVEVLTVRATDGDAPPNANILVRLLEGSGSGSEVEIPDRSGVITRGPVDREE 360
 Qy 360 VESYQLTVEASDQGRDPGRSTTTAAVFLSVBDDNDNAPQFSEKRYVVOVREDVTPGAPVL 419
 Db 361 VESYQLTVEASDQGRDPGRSTTTAAVFLSVBDDNDNAPQFSEKRYVVOVREDVTPGAPVL 420
 Qy 420 RVTASDRDKGSNAVVHYSIMSGNARGQFYLDQAOTGALDVUSPLDYETTKETLVRADQG 479
 Db 421 RVTASDRDKGSNAVVHYSIMSGNARGQFYLDQAOTGALDVUSPLDYETTKETLVRADQG 480
 Qy 480 GRPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLESVPLGLVLHVQAIDADAGDNAR 539
 Db 481 GRPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLESVPLGLVLHVQAIDADAGDNAR 540
 Qy 540 LEYRLAGVGHDPFPFTINNGTGWISVAELDREEDVDFYSGVEARDHGTGTPALTASASVVT 599
 Db 541 LEYRLAGVGHDPFPFTINNGTGWISVAELDREEDVDFYSGVEARDHGTGTPALTASASVVT 600

Qy 600 VLDVNDNNPTTQBEYTVRLNEDAAVGSVTVVSAVDRDAHSVITYQITSGTNRNRSIT 659
Db 601 VLDVNDNNPTTQBEYTVRLNEDAAVGSVTVVSAVDRDAHSVITYQITSGTNRNRSIT 660
Qy 660 SOSGGGLVSLALPLDYKLERQYVLAVTASDGTRODTAQIVNVNTDANTHRVPFQSSHVTV 719
Db 661 SOSGGGLVSLALPLDYKLERQYVLAVTASDGTRODTAQIVNVNTDANTHRVPFQSSHVTV 720
Qy 720 NVNEDRPAGTTVVLISATDEDTGENARITYFMEDSIPQFRIDADTGAVTTOAELDYEDQV 779
Db 721 NVNEDRPAGTTVVLISATDEDTGENARITYFMEDSIPQFRIDADTGAVTTOAELDYEDQV 780
Qy 780 SYTLAITARDNGIPQKSDTTTLEILVNDVNDNAQFLRDSYQGSYVEDVPPTSVLQISA 839
Db 781 SYTLAITARDNGIPQKSDTTTLEILVNDVNDNAQFLRDSYQGSYVEDVPPTSVLQISA 840
Qy 840 TDRDSGLNGRVFYTFQGGDDGDFIVESTSGIVRTLRLRLDRENVAVQVLRAYAVDKGMP 899
Db 841 TDRDSGLNGRVFYTFQGGDDGDFIVESTSGIVRTLRLRLDRENVAVQVLRAYAVDKGMP 900
Qy 900 PARTMEVTVTVLDVNDNPPVFEQDEDFVFEENSPIGLAVARVATDPDDEGTNAQIMYQ 959
Db 901 PARTMEVTVTVLDVNDNPPVFEQDEDFVFEENSPIGLAVARVATDPDDEGTNAQIMYQ 960
Qy 960 IVEGNIPEVFOLDIFSGELTALVDLYEDRPEYVLVIQATSAPLVSRAVTHVRLDRNDN 1019
Db 961 IVEGNIPEVFOLDIFSGELTALVDLYEDRPEYVLVIQATSAPLVSRAVTHVRLDRNDN 1020
Qy 1020 PPVLGNFEILFNNTVNRSSFPGGAIGRVAHPDDISDSLTYSFERGNELSVLNAST 1079
Db 1021 PPVLGNFEILFNNTVNRSSFPGGAIGRVAHPDDISDSLTYSFERGNELSVLNAST 1080
Qy 1080 GELKLSRALDNNRPLEAIMSVLSDGVHSVTAQALRVITITDEMLTHSITRLLEDMSPE 1139
Db 1081 GELKLSRALDNNRPLEAIMSVLSDGVHSVTAQALRVITITDEMLTHSITRLLEDMSPE 1140
Qy 1140 RFLSPLGLGFTQAAVATLATPPDHVNVNVDRTDAPCGHILNVLSVGQPPGCGGPPF 1199
Db 1141 RFLSPLGLGFTQAAVATLATPPDHVNVNVDRTDAPCGHILNVLSVGQPPGCGGPPF 1200
Qy 1200 LPSEDLQERLYLNESSLTALSAQVLPDPDDNICLREPCENTMRCVSVLRFDPSSAPFIASS 1259
Db 1201 LPSEDLQERLYLNESSLTALSAQVLPDPDDNICLREPCENTMRCVSVLRFDPSSAPFIASS 1260
Qy 1260 SVLFRP1HPVGG1RCRCPGFTGYCETEVDLCYSRPCGPHGRCSRREGGYTCLCRDGYT 1319
Db 1261 SVLFRP1HPVGG1RCRCPGFTGYCETEVDLCYSRPCGPHGRCSRREGGYTCLCRDGYT 1320
Qy 1320 GEHCEVSARSGRCTPGVCKNGGT CNLLVGGFKDCDPSGDFPEKPYCQVTTTRSPFAHSFIT 1379
Db 1321 GEHCEVSARSGRCTPGVCKNGGT CNLLVGGFKDCDPSGDFPEKPYCQVTTTRSPFAHSFIT 1380
Qy 1380 FRGLRQRFHFTALSFATKERDGLLLYNGRNEKHDVFALEVIQEOVLTFESAGESTTV 1439
Db 1381 FRGLRQRFHFTALSFATKERDGLLLYNGRNEKHDVFALEVIQEOVLTFESAGESTTV 1440
Qy 1440 SPFPVGGVSDQWHTVOLKYNKPLLGOTGLPQGPSEOKVAVTVVGGCDTGVALRFGSVL 1499
Db 1441 SPFPVGGVSDQWHTVOLKYNKPLLGOTGLPQGPSEOKVAVTVVGGCDTGVALRFGSVL 1500
Qy 1500 GNYSCAAQGTGGSKSLDLTGPLLGGVPLPESFPVRMRQFVGMCRNLQVDSRHDMA 1559
Db 1501 GNYSCAAQGTGGSKSLDLTGPLLGGVPLPESFPVRMRQFVGMCRNLQVDSRHDMA 1560
Qy 1560 DFIANNGTVPCCPAKQVCDNNTCHNGTCVNQWDAFSCCEPLFGGKSCAQEMANQHF 1619
Db 1561 DFIANNGTVPCCPAKQVCDNNTCHNGTCVNQWDAFSCCEPLFGGKSCAQEMANQHF 1620
Qy 1620 LGSSILVAWHGLSLPTISQPYWLSLMPFRTRQADGVLLQAITRGRSTITTLQREGHVMLSVEG 1679
Db 1621 LGSSILVAWHGLSLPTISQPYWLSLMPFRTRQADGVLLQAITRGRSTITTLQREGHVMLSVEG 1680

Qy 1680 TGLOASSIRLEPGRANDGDWHQAQIALGASGPGCHAILSPDYGOQRAEGN1GPRHLGLHL 1739
Db 1681 TGLOASSIRLEPGRANDGDWHQAQIALGASGPGCHAILSPDYGOQRAEGN1GPRHLGLHL 1740
Qy 1740 SNIITVGG1PGPAGVARGFRGCLQGVRSVDTPEGVNSLDPSHGSESINVEQCSLPDPCDS 1799
Db 1741 SNIITVGG1PGPAGVARGFRGCLQGVRSVDTPEGVNSLDPSHGSESINVEQCSLPDPCDS 1800
Qy 1800 NPCPANSYCSNDMDSYSCSDPGYYGDNCTNVCDLNPCHEQSVCTRKP9SAPHGYTCBPP 1859
Db 1801 NPCPANSYCSNDMDSYSCSDPGYYGDNCTNVCDLNPCHEQSVCTRKP9SAPHGYTCBPP 1860
Qy 1860 NYLGPYCETRIDOPCRPGWGHPTCGPCNCDVSKGFPDPCNKTSGECKENHVRPPGSP 1919
Db 1861 NYLGPYCETRIDOPCRPGWGHPTCGPCNCDVSKGFPDPCNKTSGECKENHVRPPGSP 1920
Qy 1920 TCLLCDCYPTGSLSRVCDPEDGQCPKPGVIGROCDRCDNPFPAEVTNNGCE- ---VNYDS 1975
Db 1921 TCLLCDCYPTGSLSRVCDPEDGQCPKPGVIGROCDRCDNPFPAEVTNNGCE- ---VNYDS 1978
Qy 1976 CPRAIEAGIWWPRT- ---FGLPAAAPCPKGP- ---GTAVRHCDHRGWLPPNLPNC 2025
Db 1979 CPRPMRC- ---WPPAEPLSQSOGLPVCLP-EAGPFGFLPPGTAVRHCDHRGWLPPNLPNC 2034
Qy 2026 TSITFSELKGAERLORNESGLDSRQOALALILRNATQHTAGYFGSDVKVAYQATRL 2085
Db 2035 TSITFSELKGAERLORNESGLDSRQOALALILRNATQHTAGYFGSDVKVAYQATRL 2094
Qy 2086 AHESTQSGFGLSATQDVHFTENLLRVGSALLDTANKRHWELIQQTEGTAMLLQHYEAYA 2145
Db 2095 AHESTQSGFGLSATQDVHFTENLLRVGSALLDTANKRHWELIQQTEGTAMLLQHYEAYA 2154
Qy 2146 SALAQNNRHTYLSPTTIVTNIVISVVRDLKGNFAGAKLPRYALRGQPPDLETTVILP 2205
Db 2155 SALAQNNRHTYLSPTTIVTNIVISVVRDLKGNFAGAKLPRYALRGQPPDLETTVILP 2214
Qy 2206 ESVPRETPVVRPAGPGEAQPEELARORHPBELSQGEAVASVIIYETLAGLLPHNDP 2265
Db 2215 ESVPRETPVVRPAGPGEAQPEELARORHPBELSQGEAVASVIIYETLAGLLPHNDP 2274
Qy 2266 DKRSLRPVKRPIINTPVVISVHDDDELLPRALDKPTVQFRLLTEERTKPICVFWNHS 2325
Db 2275 DKRSLRPVKRPIINTPVVISVHDDDELLPRALDKPTVQFRLLTEERTKPICVFWNHS 2334
Qy 2326 ILVSGTGGSARGCEVVRNESHVSCQCNHMTSFAVLMDSVRRE- ---NGRIL 2374
Db 2335 ILVSGTGGSARGCEVVRNESHVSCQCNHMTSFAVLMDSVRREVGPTGAAAPWNGRIL 2394
Qy 2375 PLKTLTYVALGVTLAALLLTPFFLTLLRILRSNOHGIRRNLTAAIGLAQLVFLGINQAD 2434
Db 2395 PLKTLTYVALGVTLAALLLTPFFLTLLRILRSNOHGIRRNLTAAIGLAQLVFLGINQAD 2454
Qy 2435 LPFACTVIAILLHPLYLCTFSWALLEALHYRALTEVRDVTNTPMRFYMLGWPAPFIT 2494
Db 2455 LPFACTVIAILLHPLYLCTFSWALLEALHYRALTEVRDVTNTPMRFYMLGWPAPFIT 2514
Qy 2495 GLAVGLDPEGVGNPDFCWLSTYDTLIWSFAGVAFVMSVFLYIILAAARASCAARQGF 2554
Db 2515 GLAVGLDPEGVGNPDFCWLSTYDTLIWSFAGVAFVMSVFLYIILAAARASCAARQGF 2574
Qy 2555 KKGVPVGLQSPFVALLLSATWLLALLSVNSDTHLLFHYLFATCNCIQPPFIESTVVLJSK 2614
Db 2575 KKGVPVGLQSPFVALLLSATWLLALLSVNSDTHLLFHYLFATCNCIQPPFIESTVVLJSK 2634
Qy 2615 EVRKALKLACSRKSPDPALTTKSTLTSSVNCPSYADGRLYQPYGDSAGSLHSTRSGK 2674
Db 2635 EVRKALKLACSRKSPDPALTTKSTLTSSVNCPSYADGRLYQPYGDSAGSLHSTRSGK 2694
Qy 2675 SQPSYIFPLREESALNPGQPGGLGDPGSLFLRQCGQOQHPDPTSDSDLSLEDDQSGSY 2734
Db 2695 SQPSYIFPLREESALNPGQPGGLGDPGSLFLRQCGQOQHPDPTSDSDLSLEDDQSGSY 2754
Qy 2735 ASTHSDSESEEEEEEEAAPPGEQGWDSLILGPGAERLPLHSTPKDGGPGKAPWPGDF 2794

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Db 2755 ASTHSSDSEEEEEEEAFPEQWDSLGLGFAERLPLHSTPKDGGPGKAPWGDG 2814
Qy 2795 GTTAKSSGNGAPEERLRENGDALSRGSLGPIPLGSSAOPHKGIKKKCLPTISEKSSLL 2854
Db 2815 GTTAKSSGNGAPEERLRENGDALSRGSLGPIPLGSSAOPHKGIKKKCLPTISEKSSLL 2874
Qy 2855 RLPLEQCTGSSRSSASGSGRGPPPPRPPROSLQOLNGVMPAIIKAGTVDEDSGS 2914
Db 2875 RLPLEQCTGSSRSSASGSGRGPPPPRPPROSLQOLNGVMPAIIKAGTVDEDSGS 2934
Qy 2915 E 2915
Db 2935 E 2935

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RESULT 10
US-10-038-854-71
; Sequence 71, Application US/10038854
; Publication No. US20040022781A1
; GENERAL INFORMATION: Kimberly A
; APPLICANT: Spytek, Li, Li
; APPLICANT: Li, Li
; APPLICANT: Wolenc, Adam R
; APPLICANT: Vernet, Corine
; APPLICANT: Eisen, Andrew J
; APPLICANT: Liu, Xiaohong
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Shimkets, Richard A
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spaderna, Steven K
; APPLICANT: Gorman, Linda
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Patturajan, Meera
; APPLICANT: Gusev, Vladimir Y
; APPLICANT: Gangolli, Esha A
; APPLICANT: Guo, Xiaojia S
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Rastelli, Luca
; APPLICANT: Casman, Stacie J
; APPLICANT: Boldog, Ferenc
; APPLICANT: Burgess, Catherine E
; APPLICANT: Edinger, Shlomit R
; APPLICANT: Ellerman, Karen
; APPLICANT: Gunther, Erik
; APPLICANT: Smithson, Glenda
; APPLICANT: Millet, Isabelle
; APPLICANT: MacDougall, John R
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-230
; CURRENT APPLICATION NUMBER: US/10/038,854
; CURRENT FILING DATE: 2003-01-22
; PRIOR APPLICATION NUMBER: 60/258,928
; PRIOR FILING DATE: 2000-12-29
; PRIOR APPLICATION NUMBER: 60/259,415
; PRIOR FILING DATE: 2001-01-02
; PRIOR APPLICATION NUMBER: 60/259,785
; PRIOR FILING DATE: 2001-01-04
; PRIOR APPLICATION NUMBER: 60/269,814
; PRIOR FILING DATE: 2001-02-20
; PRIOR APPLICATION NUMBER: 60/279,832
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/279,833
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/279,863
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/283,889
; PRIOR FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: 60/284,447
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/286,683
; PRIOR FILING DATE: 2001-04-25
; Remaining Prior Application data removed - See File Wrapper or PALM.

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; NUMBER OF SEQ ID NOS: 411
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 71
; LENGTH: 2920
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-038-854-71

Query Match 94.2%; Score 14647.5; DB 15; Length 2920;
Best Local Similarity 94.3%; Pred. No. 0;
Matches 2758; Conservative 54; Mismatches 107; Indels 5; Gaps 2;

Qy 1 MRSPTAGVPLPTPPPLLLLLLLLLPPPLLDQVGPCRSLSGRSGSSGACAPMGWLCPS 60
Db 1 MTRTAASAPLPTPLPLLLLLLLLLPPSPPLLDQVGPCRSLSGRSGSSGACAPMGWLCPA 60
Qy 61 SASNLWLYTSRCRDAGTGLHLPVPHDGLRVWCPSEAHPIPPAPEGCPWSCRLLIG 120
Db 61 SASNLWLYTSRCRESGIELTGLHLPVPHDGLRVWCPESGAHPIPPPSSEGCPCWSCRLLIG 120
Qy 121 GHLSPQKGLTLPEHPCLKAPRLRCQSKLAQAPGLRAGERSPEESLGGRRKRVNTAPQ 180
Db 121 GHLSPQGTTLTPEHPCLKAPRLFCQSKLAQAPGLRAGEGSPESLGGRRKRVNTAPQ 180
Qy 181 FQPPSYQATVPENOPAGTPVASLRAIDPDEGEAGRLTYTMDALFDSRSNOFFSFLDPVTGA 240
Db 181 FQPPSYQATVPENOPAGTSSVASLRAIDPDEGEAGRLTYTMDALFDSRSNHFFSFLDPITGV 240
Qy 241 VTTAEELDRKSTHVRVTAQDHGMPRRRSALATLTILVTDTNDHDPVFQOQYKESLRE 300
Db 241 VTTAEELDRKSTHVRVTAQDHGMPRRRSALATLTILVTDTNDHDPVFQOQYKESLRE 300
Qy 301 NLEVGYEVLTVRATDGDAPPNANILYRLLEGSGSPSEVFEIDPRSGVITRGPVDRREV 360
Db 301 NLEVGYEVLTVRATDGDAPPNANILYRLLEGAGDSPDAFEIDPRSGVITRGPVDRREV 360
Qy 361 ESYOLTVEASDQGRDPCPRSTTAAVFLSVEDNDNAPQFSEKRVVQVREDVTPGAPVLR 420
Db 361 ESYKLTVEASDQGRDPCPRSTALVFLSVEDNDNAPQFSEKRVVQVREDVTPGAPVLR 420
Qy 421 VTASDRDKGSNAVHYHSIMSGNARGQFYLDATQCALDVWSPLDYETTKYTLRVAQDGG 480
Db 421 VTASDRDKGSNALVHYHSIMSGNARGQFYLDATQCALDVWSPLDYETTKYTLRVAQDGG 480
Qy 481 RPPLSNVSGLVTVQVLDIND-NAPFVSTPQATVLESVPLGLVHLVQALDADAGNAR 539
Db 481 RPPLSNVSGLVTVQVLDINDIRPFVSTPQATVLESVPLGLVHLVQALDADAGNAR 540
Qy 540 LEYRLAGVGHDFPFTINNGTGWISVAEELDREEDVDFSGVEARDHGTPTALTASASVST 599
Db 541 LEYSLAGVGHDFPFTINNGTGWISVAEELDREEDVDFSGVEARDHGTPTALTASASVST 600
Qy 600 VLDVNDNNPTFTQPEYTVRLNEDAAVGTSSVTVSAVDRDAHSVITYQITSGNTRNRSIT 659
Db 601 ILVDVNDNNPTFTQPEYTVRLNEDAAVGTSSVTVSAVDRHAHSVITYQITSGNTRNRSIT 660
Qy 660 SOSGGGLVSLALPLDYKLEROYVLAVTASDGTRODTAQIVVNVTDANTHRVPFOSSHVTV 719
Db 661 SOSGGGLVSLALPLDYKLEROYVLAVTASDGTRODTAQIVVNVTDANTHRVPFOSSHVTV 720
Qy 720 NVNEDRPAGTTVVLISATDEDTGENARITYFMEDSIPOFRIDADTGAVTTOAELDYEQV 779
Db 721 NVNEDRPAGTTVVLISATDEDTGENARITYFMEDSIPOFRIDGTGAVTTOAELDYEQV 780
Qy 780 SYTLAITARDNGIPKSDTTYLLEILVNDVNDNAPQFLRDSYQGSVYEDVPPFTSVLQISA 839
Db 781 SYTLAITARDNGIPKSDTTYLLEILVNDVNDNAPQFLRDSYQGTVYEDVPPFTSVLQILA 840
Qy 840 TDRSGGLNGRVFYTFQGGDDGDDGDFIVESTSGIVRTLRLDRNVAVQVLRAYAVDKMP 899
Db 841 TDRSGGLNGRVFYTFQGGDDGDDGDFIVESTSGIVRTLRLDRNVAVQVLRAYAVDKMP 900
Qy 900 PARTPMEVTVTVLDVNDNPPVFEQDFDVFVEENSPIGLAVARVATDTPDDEGTNAQIMYQ 959

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Db 901 PARTMEVTVTLQDGNPPVFEQDEPDVFEENSPIGLAVARVATDDEGTNAQIMYQ 960
Qy IVEGNIPEVFOLDIFSGBELTALVDLYEDREPEYVLVIQATSAPLVSRATVHVRLLDRND 1019
Db IVEGNIPEVFOLDIFSGBELTALVDLYEDREPEYVLVIQATSAPLVSRATVHVRLLDRND 1020
Qy PPVLGNFEILFNNTVTRNSSFPGAGIQRVPAHDPDIDSLSITYSPERGNELSVLLNAST 1079
Db PPVLGNFEILFNNTVTRNSSFPGAGIQRVPAHDPDIDSLSITYSPERGNELSVLLNAST 1080
Qy GELKLSRALDNNRPLEAIMSVSDGVHSVTAQALRVITITDMLTHSITRLREDMSPE 1139
Db GELKLSRALDNNRPLEAIMSVSDGVHSVTAQALRVITITDMLTHSITRLREDMSPE 1140
Qy RFLSPLLLGLFIOAVALATLATPDHVVFNVDQTDAPGCHILNVLSVGPQPGGGPPF 1199
Db RFLSPLLLGLFIOAVALATLATPDHVVFNVDQTDAPGCHILNVLSVGPQPGGGPPF 1200
Qy LPSEDLOERLYLNRSLLTATSAQRVLPDDNLCIREPCENTMRCVSVLRFDS9APFIASS 1259
Db LPSEDLOERLYLNRSLLTATSAQRVLPDDNLCIREPCENTMRCVSVLRFDS9APFIASS 1260
Qy SVLFRPITHVGLRCRCPGPGTGDYCEDEVDLVLCYSPCGPHGRCRSRGGVTCICRDCYT 1319
Db SVLFRPITHVGLRCRCPGPGTGDYCEDEVDLVLCYSPCGPHGRCRSRGGVTCICRDCYT 1320
Qy GEHCEVSARSRCRTPGVCKNGGTGNLLVGGFKDCPSGDPFEKPYCQVTTTSPFAHSFIT 1379
Db GEHCEVSARSRCRTPGVCKNGGTGNLLVGGFKDCPSGDPFEKPYCQVTTTSPFAHSFIT 1380
Qy FRGLRQRFHTLALSFATKBERDGLLLNNGRNEKHDFALEVIQEOVLTPSAGESTTV 1439
Db FRGLRQRFHTLALSFATKBERDGLLLNNGRNEKHDFALEVIQEOVLTPSAGESTTV 1440
Qy SPFVPGVSDGQWHTVOLKYNKPLLGOTGLPQGSBQKVAVTVDCDGTVALRFGSVL 1499
Db SPFVPGVSDGQWHTVOLKYNKPLLGOTGLPQGSBQKVAVTVDCDGTVALRFGSVL 1500
Qy GNYSCAAQGTGGSKSLDLTGPLLGGVPLDPSFVRMRQFVGCNMRNLQVDSRHIDMA 1559
Db GNYSCAAQGTGGSKSLDLTGPLLGGVPLDPSFVRMRHFGVCKMDLQVDSRHIDMA 1560
Qy DFIANNGTVPCCPAKNNVCSNNTCHNGGTQVNDWAFSCEPLFGFGKSCAQEMANPOHF 1619
Db DFIANNGTVPCCPKTIKIVCDSSI CHNGGTQVNDWTFSCCEPLFGFGKSCAQEMANPORF 1620
Qy LGSSLVAWHGLSLPI SQPWYLSLMFRTRQADGVLLQAITRGRSTITLQLRGHWMLSVEG 1679
Db LGSSLVAWHGLYLPI SQPWHLNLMFRTRQADGVLLQAVTRGRSTITLQLRAGHVRLSMGB 1680
Qy TGLQASSILRLEPGRANDGDWHHAQALCAGSGPGHAILSPYGOORAEGLNLPRLHGLHL 1739
Db TGLQASSLHLEPGRANDGDWHHAQALCAGSGPGHAILSPNYGOOTAEGLNLPRLHGLHL 1740
Qy SNIITVGGIPGAGVARGFRGCLQGVRSVDPTEGVNSLDPHSGSINVEQCSLPDPCDS 1799
Db SNIITVGGVPGASVARGFRGCLQGVRSVTEPEGVSHLDPHSGSINVEPCSLPDPCDS 1800
Qy NPCPANSYCNDWDSYSCDPPGYGNCNTVCDLNCFCEHQSVCITRKPSPHGYTCCEPP 1859
Db NPCPTNSYNDWNMSYSCSVLGYGNCNTVCDLNCFCEHQSVCITRKPNTPHGYICECLP 1860
Qy NYLGPYCETRIDQPCPRGWGHPTCGPCNCDVSKGDPDCNKTSGECHKENHYRPPGSP 1919
Db NYLGPYCETRIDQPCPRGWGHPTCGPCNCDVSKGDPDCNKTSGECHKENHYRPPGSP 1920
Qy TCLLDCDCYPTGSLSRVCDPEDGQCPCKPGVIGROCDRCDNPPFAEVTNNGCEVNYDSCPRA 1979
Db TCLLDCDCYPTGSLSRVCDPEDGQCPCKPGVIGROCDRCDNPPFAEVTNNGCEVNYDSCPRA 1980
Qy IEAGIWWPRTRFGLPAAAPCPKSGFGTAVRHCDHRGWLPPNLNCTSIITPSELKGFAPR 2039

Db 1981 IEAGIWWPRTRFGLPAAAPCPKSGFGTAVRHCDHRGWLPPNLNCTSVTSELKGFAPR 2040
Qy LQRNESGLDGRSQQLALLRNATQHTAGYFGSDVKVAYQALATRLLAHESQRGFLSAT 2099
Db LQRNESGLDGRSQRLALLRNATQHTSGYFGSDVKVAYQALATRLLAHESAQRGFLSAT 2100
Qy QDVHFTENILRVGSALLDITANKRWELIIOQTEGDTAMLLQHYEAYASALAQNMRHTYLS 2159
Db QDVHFTENILRVGSALLDITANKRWELIIOQTEGDTAMLLQHYEAYASALAQNMRHTYLS 2160
Qy FTIVTPIVIVSVRLDKGNFAGAKLPRYEALRGQPPDLETIVILPESVPRETDPVVRPA 2219
Db FTIVTPIVIVSVRLDKGNFAGTKLPRYEALRGPRPDVETIVILPESVFRFMSWVRS 2220
Qy GPGEAQPEELARQRHPHLSQGEAVASVIIYETLAGLLPHNYDDPKRSURVPRPIIN 2279
Db GPGEAQTEELARQRHPHLSQGEAVASVIIYETLAGLLPHNYDDPKRSURVPRPIIN 2280
Qy TPVVISVHDEELLPRALDKPVTQVRLLETERTKPICVFNHHSILVSGTGWMSARGC 2339
Db TPAVISVHDEELLPRALDKPVTQVRLLETERTKPICVFNHHSILVSGTGWMSARGC 2340
Qy EVVFRNESHVSCQCNHMTSPAVLMDVSRRENGETILPLKLTIVVALGVTLAALLTFFFLT 2399
Db EVVFRNESHVSCQCNHMTSPAVLMDSRRENGETILPLKLTIVVALGVTLAALLTFFFLT 2400
Qy LLRLIRSNQHGIRNRLTAALGLAQLVFLLLGINQADLPACTVIAILLHFLYLCTFSWALL 2459
Db LLRLIRSNQHGIRNRLTAALGLAQLVFLLLGINQADLPACTVIAILLHFLYLCTFSWALL 2460
Qy EALHLYALTEVRDVTGPMRFYVYMLGWGPAPFITGLAVGLDPGYNPDFCWLSIYDTL 2519
Db EALHLYALTEVRDVNASPMRFYVYMLGWGPAPFITGLAVGLDPGYNPDFCWLSIYDTL 2520
Qy IWSFAGVAVASVMSVFLYIILAAASCAAORQGEKGPVSGLOPSPFAVLLLSATWLLA 2579
Db IWSFAGVAVASVMSVFLYIILSARASCAAORQGEKGPVSGLOPSPFAVLLLSATWLLA 2580
Qy LLSVNSDTLLFHYLFATCNCIQGPFIFLSVYVLSKEVRKALKACSRKSPDPALTTKST 2639
Db LLSVNSDTLLFHYLFAACNCVQGPFI FLSVYVLSKEVRKALKACSRKSPDPALTTKST 2640
Qy LTSSYNCPSPYADGRILQPYGDSAGSLHSTSRKSQSPSYIPLLRBSALNPGQPPGL 2699
Db LTSSYNCPSPYADGRILQPYGDSAGSLHSTSRKSQSPSYIPLLRBSALNPGQPPGL 2700
Qy GDCSLFLEGQDQDHPDITDSDLSLEDDQSGSVASTHSSDSSEEEEEEEEAFFCEQ 2759
Db GDCSLFLEGQDQDHPDITDSDLSLEDDQSGSVASTHSSDSSEEEEEEEEAFFCEQ 2756
Qy GWDSSLGPGAERLPLHSTPKDGGPGKAPWPGDFGTAKESSGNGAPEERLRENGDAL 2819
Db GWDSSLGPGAERLPLHSTPKDGGPGKAPWPGDFGTAKESSGNGAPEERLRENGDAL 2816
Qy REGSLGLPQSSAQPHGILKKKCLPTISEKSSLLRLPLEOCTGSSRGSASRSGRGGP 2879
Db REGSLGLPQSTQPHGILKKKCLPTISEKSSLLRLPLEOCTGSSRGSISSEGRHGGP 2876
Qy PRPPPROSLOBLNGVMPVAMSIKAGTVDESDSSGSEPLFFNPLH 2923
Db PRPPPROSLOBLNGVMPVAMSIKAGTVDESDSSGSEPLFFNPLH 2920

RESULT 11

US-10-276-774-1774

; Sequence, 1774, Application US/10276774

; Publication No. US20040053245A1

; GENERAL INFORMATION:

; APPLICANT: Hyseq, Inc.

; APPLICANT: Tang, Y. Tom et al

; TITLE OF INVENTION: No. US20040053245A1el Nucleic Acids and Polypeptides

; FILE REFERENCE: 21272-030

; CURRENT APPLICATION NUMBER: US/10/276,774

; CURRENT FILING DATE: 2002-11-18
 ; PRIOR APPLICATION NUMBER: 09/560,875
 ; PRIOR FILING DATE: 2000-04-27
 ; PRIOR APPLICATION NUMBER: 09/496,914
 ; PRIOR FILING DATE: 2000-02-03
 ; NUMBER OF SEQ ID NOS: 2700
 ; SOFTWARE: Custom
 ; SEQ ID NO 1774
 ; LENGTH: 2560
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: (1)-(2560)
 ; OTHER INFORMATION: Xaa = any amino acid or nothing
 US-10-276-774-1774

Query Match 86.2%; Score 13406; DB 15; Length 2560;
 Best Local Similarity 99.3%; Pred. No. 0;
 Matches 2531; Conservative 1; Mismatches 12; Indels 4; Gaps 3;

Qy	380	STTAAVFLS	VEDDNDNAPQSEKRYVQVREDVTPGAPVLRVTASDRDKGSNAVHYISM	439
Db	13	STTAAVFLS	VEDDNDNAPQSEKRYVQVREDVTPGAPVLRVTASDRDKGSNAVHYISM	72
Qy	440	SGNARGOFLDAQTGALDVVSPLDYETTKETYLVRPAQDGGRPPLSNVSLGVTVQVLDIN	499	
Db	73	SGNARGOFLDAQTGALDVVSPLDYETTKETYLVRPAQDGGRPPLSNVSLGVTVQVLDIN	132	
Qy	500	DNAPIFVSTPQATVLESPLGLVHLVQAIADADAGDNARLEYRLAGVGHDPFPIINNGT	559	
Db	133	DNAPIFVSTPQATVLESPLGLVHLVQAIADADAGDNARLEYRLAGVGHDPFPIINNGT	192	
Qy	560	GWISVAEALDREVDYFSGVEARDHGTPALFASASVTVLDVNDNNPTFTQPEYTVRL	619	
Db	193	GWISVAEALDREVDYFSGVEARDHGTPALFASASVTVLDVNDNNPTFTQPEYTVRL	252	
Qy	620	NEDAAVGTSVVTVSAVDRDAHSVITQITSGNTRNRPFSITSGGGLVSLALPLDYKLER	679	
Db	253	NEDAAVGTSVVTVSAVDRDAHSVITQITSGNTRNRPFSITSGGGLVSLALPLDYKLER	312	
Qy	680	QYVLAVTASDGTQDTAQIIVNVTDANTHRPVQSSHYTVNVEDRPAGTIVVLISATDE	739	
Db	313	QYVLAVTASDGTQDTAQIIVNVTDANTHRPVQSSHYTVNVEDRPAGTIVVLISATDE	372	
Qy	740	DTGENARITYFMEDSIPQFRIDATGAVTTQAELEDYEDQVSYTLATARDNGIPQKSDTT	799	
Db	373	DTGENARITYFMEDSIPQFRIDATGAVTTQAELEDYEDQVSYTLATARDNGIPQKSDTT	432	
Qy	800	YLBILVNDVNDNAPQFLRDSYQGSVYEDVPFTSVLQISATDRDGLNGRVFTYQGGDD	859	
Db	433	YLBILVNDVNDNAPQFLRDSYQGSVYEDVPFTSVLQISATDRDGLNGRVFTYQGGDD	492	
Qy	860	GDGDFIVESTSGIVTRLRLRDRENAQYVLRAYAVDKGMPPARTPMEVTVTVLDVNDNPP	919	
Db	493	GDGDFIVESTSGIVTRLRLRDRENAQYVLRAYAVDKGMPPARTPMEVTVTVLDVNDNPP	552	
Qy	920	VFEQDEPDPVBEENSPIGLAVARVATDPDEGTNAQIMYQIVEGNIPEVFQLDIFSGELT	979	
Db	553	VFEQDEPDPVBEENSPIGLAVARVATDPDEGTNAQIMYQIVEGNIPEVFQLDIFSGELT	612	
Qy	980	ALVDLDYEDRPEVVLVQATSAPLVSRATVHVPLDRNDNPPVLGNFEILFNNTYVNRSS	1039	
Db	613	ALVDLDYEDRPEVVLVQATSAPLVSRATVHVPLDRNDNPPVLGNFEILFNNTYVNRSS	672	
Qy	1040	SFPGGALGRVPAHDPIQSDSLTYSFERGNELSVLVNASTGELKLSRALDNNRPLEAIMS	1099	
Db	673	SFPGGALGRVPAHDPIQSDSLTYSFERGNELSVLVNASTGELKLSRALDNNRPLEAIMS	732	
Qy	1100	VLVSDGVSHVTAQCALRVITITDEMTHSITLRLDMSPERFLSPILGLFIOAVAAATLAT	1159	
Db	733	VLVSDGVSHVTAQCALRVITITDEMTHSITLRLDMSPERFLSPILGLFIOAVAAATLAT	792	

Qy	1160	PPDHVVVFVQRTDAPGCHI LNVSLSVGQPPGGGGPPPLPSSEDLQERLYLNRSLLTAI	1219	
Db	793	PPDHVVVFVQRTDAPGCHI LNVSLSVGQPPGGGGPPPLPSSEDLQERLYLNRSLLTAI	852	
Qy	1220	SAQRVLFPDDNI CLREPCENYMCVSLRFPDSSAPFIASSSVLFRPIHPVGGRLRCRCPG	1279	
Db	853	SAQRVLFPDDNI CLREPCENYMCVSLRFPDSSAPFIASSSVLFRPIHPVGGRLRCRCPG	912	
Qy	1280	FTGDYCETEVDLCYSRRCGPHGRCSRREGGYTCLCRDGYTGEHCEVSARSGRCTPGVCKN	1339	
Db	913	FTGDYCETEVDLCYSRRCGPHGRCSRREGGYTCLCRDGYTGEHCEVSARSGRCTPGVCKN	972	
Qy	1340	GGTCVNLVGGFKDCPSGDFPEKPYCOVTRSPPAHSFIFRGLRQRFHFTLALSFAATKE	1399	
Db	973	GGTCVNLVGGFKDCPSGDFPEKPYCOVTRSPPAHSFIFRGLRQRFHFTLALSFAATKE	1032	
Qy	1400	RDGGLLYNGRPNKHDFALEVIQEQVQLTFSAGESITTVSPFVPGSVSDGQWHTVOLKY	1459	
Db	1033	RDGGLLYNGRPNKHDFALEVIQEQVQLTFSAGESITTVSPFVPGSVSDGQWHTVOLKY	1092	
Qy	1460	YKPELLGOTGLPOGSPSEKQVAVVTVDCDTGVALRFGSVLGNYSCAAQGTGGGSKSLDL	1519	
Db	1093	YKPELLGOTGLPOGSPSEKQVAVVTVDCDTGVALRFGSVLGNYSCAAQGTGGGSKSLDL	1152	
Qy	1520	TGPLLLGGVPDLPSFPVPMRQFVGCNRLQVDSRHIDMADFIANNGTVPGCCPAKKNVCD	1579	
Db	1153	TGPLLLGGVPDLPSFPVPMRQFVGCNRLQVDSRHIDMADFIANNGTVPGCCPAKKNVCD	1212	
Qy	1580	SNTCHNGGTVCNWDAPFSCPCPLFGGKSCAQEMANPOHFGLGSLVAWHGLSLPIQPMY	1639	
Db	1213	SNTCHNGGTVCNWDAPFSCPCPLFGGKSCAQEMANPOHFGLGSLVAWHGLSLPIQPMY	1272	
Qy	1640	LSLMFRTRQADGVLLQAITRGRSTITLQREGHVMSVEGTGLQASSLRLEPGRANDGDW	1699	
Db	1273	LSLMFRTRQADGVLLQAITRGRSTITLQREGHVMSVEGTGLQASSLRLEPGRANDGDW	1332	
Qy	1700	HHAQLALCAGSGGPHAILSPDYGOORAEGLNLPRLHGLHLSNITVGGIPGAPGAVARGFR	1759	
Db	1333	HHAQLALCAGSGGPHAILSPDYGOORAEGLNLPRLHGLHLSNITVGGIPGAPGAVARGFR	1392	
Qy	1760	GCLQGVRSVDTPEGVNSLDPSHGESINVEQGCSPDPDCSNPCPANSYCSNDWDSYSCSC	1819	
Db	1393	GCLQGVRSVDTPEGVNSLDPSHGESINVEQGCSPDPDCSNPCPANSYCSNDWDSYSCSC	1452	
Qy	1820	DPGYGDNCTNVCNLDNCEHQSVCTRKPSAPHGYTCCEPPNYLGPYCETRIDQPCRGW	1879	
Db	1453	DPGYGDNCTNVCNLDNCEHQSVCTRKPSAPHGYTCCEPPNYLGPYCETRIDQPCRGW	1512	
Qy	1880	GHPTCGPCNCDVSKGFPDCKNTSGECKENHYRPPGSPPTCLLDCDCTPTGSLSRVCDPE	1939	
Db	1513	GHPTCGPCNCDVSKGFPDCKNTSGECKENHYRPPGSPPTCLLDCDCTPTGSLSRVCDPE	1572	
Qy	1940	DGQCPCKPGVIGROCDRCDNPPFAEVTTNGCEVNYDSCPRAIERAGIWWPRTFGLPAAAPC	1999	
Db	1573	DGQCPCKPGVIGROCDRCDNPPFAEVTTNGCEVNYDSCPRAIERAGIWWPRTFGLPAAAPC	1632	
Qy	2000	PKGSFGTAVRHCDHRGWLPPNLFNCTSIITFSELKGFALRQNESGLDSCRSQLALL	2059	
Db	1633	PKGSFGTAVRHCDHRGWLPPNLFNCTSIITFSELKGFALRQNESGLDSCRSQLALL	1692	
Qy	2060	RNATQHTAGYFGSDVKVAYQIATRLLAHSTQRFGLSATQDVHFTENLVRVGSALLDPA	2119	
Db	1693	RNATQHTAGYFGSDVKVAYQIATRLLAHSTQRFGLSATQDVHFTENLVRVGSALLDPA	1752	
Qy	2120	NKRHWELIQTEGTGATMLLQHYEAYASALAQNMHTYLSPTTIVTPNIVISVRLDKGNF	2179	
Db	1753	NKRHWELIQTEGTGATMLLQHYEAYASALAQNMHTYLSPTTIVTPNIVISVRLDKGNF	1812	
Qy	2180	AGAKLPRYEALRGQPDLETTVILPESVFPRETPPVVRPAGPGEAQPPELARRQRHPE	2239	
Db	1813	AGAKLPRYEALRGQPDLETTVILPESVFPRETPPVVRPAGPGEAQPPELARRQRHPE	1872	
Qy	2240	LSQGEAVASVIIYRTLAGLLPHNYDDPKRSLRVPKRPINTPVVSI SVHDDDELLPRALD	2299	

Db 1873 LSQEAASVLIYITLGLPHNDPDKRSURVPRPIINTPVVSI\$VHDEELLPRALD 1932
Qy 2300 KPVTVOFLLETERTKPICVFNHNSILVSGTGWMSARGCEVWFNRNESHVSCQCNHMTSF 2359
Db 1933 KPVTVOFLLETERTKPICVFNHNSILVSGTGWMSARGCEVWFNRNESHVSCQCNHMTSF 1992
Qy 2360 AVTMDVSRRENGEILPLKTLTYVALGVTLAALLITFFPFLTLRLRNSQHGIRNLTAL 2419
Db 1993 AVTMDVSRRENGEILPLKTLTYVALGVTLAALLITFFPFLTLRLRNSQHGIRNLTAL 2052
Qy 2420 GLAQLVLLGNGQADLPACTVIAILLHFLYLCFWSALLLHLYALTEVRDVTGPM 2479
Db 2053 GLAQLVLLGNGQADLPACTVIAILLHFLYLCFWSALLLHLYALTEVRDVTGPM 2112
Qy 2480 RFTYMLGWGVPFATITGLAVGLDPGYNPFCWLSIYDTLWSFAGPVAFVMSVFLYI 2539
Db 2113 RFTYMLGWGVPFATITGLAVGLDPGYNPFCWLSIYDTLWSFAGPVAFVMSVFLYI 2172
Qy 2540 LAARASCAAQROGFEKGPVSGLOPSPFAVLLLSATWLLALLSVNSDTLLPHYLFCNC 2599
Db 2173 LAARASCAAQROGFEKGPVSGLOPSPFAVLLLSATWLLALLSVNSDTLLPHYLFCNC 2232
Qy 2600 IOGPFIFLSYVVLKSKVRKALKACSRKPSDDPALTTKSTLTSSVNCPSPVADGRLYOPY 2659
Db 2233 IOGPFIFLSYVVLKSKVRKALKACSRKPSDDPALTTKSTLTSSVNCPSPVADGRLYOPY 2292
Qy 2660 GDSAGSLHSTSRSGKSPSYIPFLLRBEESALNPGQPPGLGD-PGSLFLEG--ODQQHDP 2716
Db 2293 GDSAGSLHSTSRSGKSPSYIPFLLRBEESALNPGQPPGLGIGPRLCFLGRFKDQOHDS 2352
Qy 2717 DT-DSDSDLSLEDQSGSYASTHSDSEEEEEEEEAAPFGQGWDSLLGPGAEPLH 2775
Db 2353 XTRDFDSDLSLEDQSGSYASTHSDSEEEEEEEEAAPFGQGWDSLLGPGAEPLH 2412
Qy 2776 STPKDGGPGPKAPWPGDGGTAKESGNGAPEERLRENGDALREGSLGPLGSSAQPH 2835
Db 2413 STPKDGGPGPKAPWPGDGGTAKESGNGAPEERLRENGDALREGSLGPLGSSAQPH 2472
Qy 2836 KGILKKKCLPTISEKSLRLPLBQCTGSSRGSSASGSGRGGPPRPPRPPRQSLQELNGV 2895
Db 2473 KGILKKKCLPTISEKSLRLPLBQCTGSSRGSSASGSGRGGPPRPPRPPRQSLQELNGV 2532
Qy 2896 MPIAMSIKAGTVDRDSDSGSEPLFNFLH 2923
Db 2533 MPIAMSIKAGTVDRDSDSGSEPLFNFLH 2560

RESULT 12

US-09-737-149-25
; Sequence 25, Application US/09737149
; Patent No. US20020077466A1
; GENERAL INFORMATION:
; APPLICANT: Spaderna, Steven K
; APPLICANT: Quinn, Kerry E.
; APPLICANT: Shimkets, Richard A.
; APPLICANT: Shimalidhara, Padigaru
; APPLICANT: Muralidhara, Padigaru
; APPLICANT: Muralidhara, Padigaru
; APPLICANT: Muralidhara, Padigaru
; TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-620 CIP
; CURRENT APPLICATION NUMBER: US/09737,149
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/170,564
; PRIOR FILING DATE: 1999-12-14
; PRIOR APPLICATION NUMBER: 60/173,165
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: 60/173,362
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: 60/173,544
; PRIOR FILING DATE: 1999-12-29
; PRIOR APPLICATION NUMBER: 60/174,404
; PRIOR FILING DATE: 2000-01-04
; PRIOR APPLICATION NUMBER: 60/174,962

; PRIOR FILING DATE: 2000-01-07
; PRIOR APPLICATION NUMBER: 60/223,929
; PRIOR FILING DATE: 2000-08-09
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 25
; LENGTH: 3034
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-737-149-25

Query Match 57.7%; Score 8974.5; DB 9; Length 3034;
Best Local Similarity 57.3%; Pred. No. 0;
Matches 1730; Conservative 429; Mismatches 648; Indels 210; Gaps 39;

Qy 1 MRSPTAGVPLPTPPPPPLLLLLLLLLPPPLGDDGVGCRSLGSRGRGS-----S 48
Db 124 LRSARGAELRSP-----AVRSVPLGDL--CFPAAGGGAASITSVLEAITNPPA 172
Qy 49 GACAPM-----GWLQ--PSSASNLWYTSRCDAGTGTGLVPHHDGLRVWCPSEA 99
Db 173 CSCPPVAGTGCRRGPICLRPGSAELRLVLCALGRAAGA-----VWV----- 213
Qy 100 HIPLPAPEGCPWSCRLLGIGGHLSPQKLTLPPEHPCLKAPRLRCQCKLAQAPGLRAG 159
Db 214 -----ELVIQATSGTPSPSPV-SPSL-----LNLSP-----RAG 243
Qy 160 --ERSPEESLGRKRNVNTAPQPPPSYQATVPENOPAGTPVASLRAIDPDGEAGRL 217
Db 244 VVRS-----RGTGSSSTSPQPLPSYQVSVENEPAGTAVIELRAHDDEGDAGRLS 296
Qy 218 YTMALPDSRNGOFFSLDPVTGAVTTAEELDRETKSTHFRVTAQDHGMPPRRSALATLT 277
Db 297 YQMEALPDSRNGYFLIDAATGAVTTARSLDRETKDTHLVKVSADVHSGSPRRSAATYLT 356
Qy 278 LVTDNDHDPVFGQYKESIRENLEVGKVLTVRATGDPAPNANILYRLLGSGGSPS 337
Db 357 TVSDTNDHSPVFGQYKESIRENLEVGKVLTVRATGDPAPNANILYRLLGSGGSPS 413
Qy 338 EVFIDPRSGVIRTRGPDVDEEVESYQITVEASDQGRDPPGRSTTAAVFLSVEEDNDNAP 397
Db 414 -VFIDARSQVIRTRGPDVDEEVESYQITVEASDQGRDPPGRSTTAAVFLSVEEDNDNAP 472
Qy 398 QFSEKRYVQVREDVTPGAPVLRVTASDRKGSNAVHYISIMGNARQGFYLDQATGALD 457
Db 473 QFSEKRYVQVREDVTPGAPVLRVTASDRKGSNAVHYISIMGNARQGFYLDQATGALD 532
Qy 458 VSPLDYETTKETLRVRAQDGGPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLES 517
Db 533 VINPLDFAIRREYTLRIKAQDGGPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLES 592
Qy 518 VPLGLVLRVQADADAGDNARLEIRLAVGH-----DPPFTINNGTG 560
Db 593 VPLGHSVLHIQAVDADAGENARLQYRLVDASTIVGGSSVDSENPAAPDFPQIHNSG 652
Qy 561 WISVAELDREEDVDFYSGVEARDHGTPTALTASASVTVLVDVNDNPPFTTQPTVRLN 620
Db 653 WITVCAELDREEDVDFYSGVEARDHGTPTALTASASVTVLVDVNDNPPFTTQPTVRLN 712
Qy 621 EDAVGSVTVVSAVDRDAHSVITYQITSGNTRNRFSTISQSGGLVSLALPLDYKLRQ 680
Db 713 EDAVGSVTVVSAVDRDAHSVITYQITSGNTRNRFSTISQSGGLVSLALPLDYKLRQ 772
Qy 681 YVLAVTASDGTRODTAQIIVNVVTDANTHRPVFQSSHYTVNVEDRPAAGTTVVLSATDED 740
Db 773 YVLAVTASDGTRODTAQIIVNVVTDANTHRPVFQSSHYTVNVEDRPAAGTTVVLSATDED 832
Qy 741 TGENARITYFMEDSIPQFRIDADTGAVTQAEIDYEDQVSYTLAITARDNGIPKSDTTY 800
Db 833 TGENARITYFMEDSIPQFRIDADTGAVTQAEIDYEDQVSYTLAITARDNGIPKSDTTY 892
Qy 801 LEILVNDVNDNAPQFLRDSYQSGVYEVHVPFTSVLQISATDRDGLNGRVPYFTQGGDDG 860

Db 893 LEILLDANDNAPRLFRDLYQGSVFEDAPPSTSVLQVSATDRSGPNRLLYTFQGGDDG 952
Qy 861 DGPFIVESTSGIVRTLRRLDRNVAQVVLAYAVDKMP-PARTPMEVTVTLVDNDNPP 919
Db 953 DGDIFYBPTSGVINTQRRLDRNVAVYNLWALAVDRGSPNPLSASVGIQVSVLDINDNPP 1012
Qy 920 VFEQDEPDFVFEENSPTGLAVARVTAADPDEGTNAQIMYOIVEGNIPEVQOLDIFSGLT 979
Db 1013 VFEKDELELVFEENSPVGSVVAIRANDPDEGPNQAIIQIIVEGNEVEVQOLDLSDLR 1072
Qy 980 ALVDLDYEDPEYVLVIQATSAPLVSRAIVHRLDRNDNPPVLGNPEILLFNNTVNRSS 1039
Db 1073 ALVELDEVARDYMVLVQATSAPLVSRAIVHRLDRNDNPPPELPDFQILLFNNTVNRSS 1132
Qy 1040 SFGGALGRVPAHDPDIDSLSITSPERGNELSVILNASTGELKLSALDNNRPLEAMS 1099
Db 1133 SFGSGVIGRIPAHDPDIDSLSITSPERGNELSVILNASTGELKLSALDNNRPLEAMS 1192
Qy 1100 VLVSDDGSHVSTAOCALRVITITDEMLTHSITLRELDMSPERFLSPLGLFTIOAAVAT 1159
Db 1193 VSUSDGSHVSTALCTLRVITITDDMLTNSITVRLNNSQEFSLSPULLSFEVGVATVLT 1252
Qy 1160 PPDHVVFNQORDTAPGCHILNLSVSGPPGCGPPFLPSGDLQERLYANRSLTAT 1219
Db 1253 TKDDIFVFNQNDTV--SSNINLVTSALLPGGTRG--RFPFSGEDLQEQIYLNRTLLTI 1309
Qy 1220 SAQRVLFPDDNICLREPCENYMRVSVLRFDSSAPFTASSSVLFRPHTPVGGILRCRPPG 1279
Db 1310 SAQRVLFPDDNICLREPCENYMRVSVLRFDSSAPFTASSSVLFRPHTPVGGILRCRPPG 1369
Qy 1280 FTGDYCYETEVDLCYRCPGPHGRCSRREGGYTCLCRDGYTGEHCVEASRGCTPGYCKN 1339
Db 1370 FTGDYCYETEVDLCYRCPGPHGRCSRREGGYTCECFEDTGEHCQVNRSGRCAVCKN 1429
Qy 1340 GGTGNVLVAGFKDCDPCSGDFEPEYQVTRTSRFAHSFITRGLRQRFHFTLALSFATKE 1399
Db 1430 GGTGNVLVAGFKDFVCEYHEPEYCEVSTRSPQSFVTRFGLRQRFHFTVSLAFATQD 1489
Qy 1400 RDGLLLYNGRPNKHDVVALEVOEQVLTFSAGESITTVSPFPVGGVSDGQWHTVOLKY 1459
Db 1490 RNALLLYNGRPNKHDVVALEVOEQVLTFSAGESITTVTPQVPGVSDGRWHSLVQY 1549
Qy 1460 YNPKLLGOTGLPOGSPQKAVVTVDCDGTVALRFGSLGNTYSCAAQGTQGSKKSLDL 1519
Db 1550 YNKPNIHGLHPGSPGSEKAVVTVDDCAAVAVHFGSYGNTYSCAAQGTQGSKKSLDL 1609
Qy 1520 TGPLLLGGVDPDPSPFVRMRQFYGCNRNLQVDSRHDMDADFIANNGTVPFCPAKQNVCD 1579
Db 1610 TGPLLLGGVDPDPSPFVHSRQFVGCNRNLSIDKRIVDMAAFIANNGTAGCASAQRNFC 1669
Qy 1580 SNTCHNGGTQVQNDWAFSCGCPGFGKSCAOWEAMNPOHFLGSLVAWHGLSLPISOPWY 1639
Db 1670 GTSCQNGGTQVNRWNTYLCPLRFGKNCBQAMPHPQRFTEGSSVILWSDLDITISVPWY 1729
Qy 1640 LSLMFRTRQADGVLLQAITRGRSTITLQREGHVMSVGEVGLQASSLRLEPGRANGDW 1699
Db 1730 LGLMFRTRKEDGVLMTEAGTSSRLHQLINSYIRFEVSGPSPDVASMQLSKSRITDGGW 1789
Qy 1700 HHAQALGASGGPH-----AILLSFDYQOORAEGLNGLRHLNLSITVGGIPGAGV 1754
Db 1790 HHLIIEI-LSAKEKDIKYLAVMTLDYGMDSQSTVQIGNQLPGLKWRITVIGGVTEKVS 1848
Qy 1755 ARGFRGLQGVRSVSDTPEGVNSLDPSHGESINVOGCSLDPDPCSNPCANSYCSNDWDS 1814
Db 1849 RHGFRGCMQGVRMGETSTNIATLNMNDALKVRVXGDCDVEDPCASSPCPPHRCRDTWDS 1908
Qy 1815 YSCSCDPGYGDNCTNVCLNCPCHQSVCTRKPSAPHYTCCECPNVLGYPCETRIDQPC 1874
Db 1909 YSCICDRGYFGKKVCVDACLNCPCHQVACVRSNTPRGYSCCECPGHYGYCENKVDLPC 1968
Qy 1875 PRGWWHPTCGPCNCDVSKGFPDPCNKTSGECHKENHPRPPGSPFTCLLDCYPTGSLSR 1934
Db 1969 PKGWWGNFVCGPCHCAVSGQGFDPDCNKTNGQCCKENYKPPAQAACLPCDPCPHGSHSR 2028

Qy 1935 VCDPEGQCPKPGVILGRQCDRCNDNPPFAEVTYNGCEVNYDCPRATEAGIWWPRTREGLP 1994
Db 2029 ACMDMTGQCAKCEVILGRQCNCDNPPFAEVTYNGCEVNYDCPRATEAGIWWPRTREGLP 2088
Qy 1995 AAAAPCKGSGTAVRHCDHRGMLPPNLFNCTITFSELKGFABRLQRNBSGLDGRSQ 2054
Db 2089 AAVPCPKGSGVNAVRHCSGEGKMLPPELFNCTSGSFVDLKALNEKLNRTNTRMDGNLSR 2148
Qy 2055 LALLLNATQHTAGYFGSDVKVAYQALATRLLAHESHTQRFGLSATQDVHTENLLRVGSA 2114
Db 2149 LAKALRNATQNGSTLFCNDVRTAYQALLARILQHESRQGFDLAATREANPHEDVHTGSA 2208
Qy 2115 LLDTANKRHWEILQOTEGGTAWLLOHVEAYASALONMRHTYLSPTFITVNTVISVURL 2174
Db 2209 LLAPEATASWEQIQRSEAGAAQLRHFEAYFSVARNVKTYLRFPFVITVANMILAVDIF 2268
Qy 2175 DKGNFAGAKLPRYALRGEQPPDLETTVILPESVF-----RETPPVVR-----PAGE 2221
Db 2269 DKLNFTGAQVPRPEDIQEELPRELESSVSPADTFKPEKKEGVPVRLTNRRTTPLTAQ 2328
Qy 2222 GEAOBPEELARRORRHPELSQGEAVASVIIYRTLGLLPHNYDPDKRSLRVPKRPINTP 2281
Db 2329 EPRAERETSSRRRRHPDEFGQFAVALWVYRTLGQLLPEHYDPDRSLRPLNRPVINTP 2388
Qy 2282 VVSI5VHDDDELLPRALDKPVTQVFRILLEETERTKPICVFNHNSILVSGTGGWSARGCEV 2341
Db 2389 VVSAMVSEBTPDPSLQRFILVEFSLLETEERSKPCVFNHNSLDTGGTGGWSAKGCEL 2448
Qy 2342 VFNESHVSQCNMHTSFVILMDVSRRENGEIILPLKTLTYVALGVTIAALLLFFFTLL 2401
Db 2449 LSNRTHVTCQCSHSCASCAVLMDISREHGEVLPLKIIITYAALSLSLALLVAVFLSLV 2508
Qy 2402 RIILRNQHGIRNLTAALGAQLVFLGINQADLPFACTVIAILLHPLYICTSWALLEA 2461
Db 2509 RILRNLHSIHKNLIALALFSQLIFMWGINQENPFCTVVAILLHLYVSGTFAWTLVEN 2568
Qy 2462 LHLRYALTEVRDVTNTPMRFYVMLGWGPVAFITGLAVGLDPEGVNDPCWLSLYDTLIW 2521
Db 2569 LHYRMLTEVRNIDTGMRFYHVWGICPAITVITGLAVGLDPOGYGNDPCWLSLQDTLIW 2628
Qy 2522 SFAGPVAFVAVSMGVFIYLAARASCAARQGFKEKGVSGLOPSFAVLLLSATWLLALL 2591
Db 2629 SFAGPVGTVIIINTVIFVLSAKVSCQKHHYVERKGVVSMRLTAFLLLLVATWLLGLL 2688
Qy 2582 SVNSDTLLFHYLATONCIOGPFIFLSYVVLSEVRKALK-LACSRKPSPPDALTTKST- 2639
Db 2689 AVNSDTLLFHYLFAAFSCLOGI FVLLPHCVAHREVRKHLRAVLGKKLQDSDSATRATL 2748
Qy 2640 LTSYSCPSPYADG--RLYQPYGDSAGLSHSTSRGKSQPSYIPFLLREESALNPGQPP 2697
Db 2749 LTLNLNNTYISGPDMLRTALGESATSLDSTTRDEGVQ-----KLSVSSGPARG 2798
Qy 2698 GLDGPGLFL-EGQDQHQDDPTDSDLSLEDQSGSYASTHSDSESEEEEEEEAAPP 2756
Db 2799 NHGEPDTSFIPRNSKKAHGPSDSDSELSL-DEHSSSYASSHTSDSDGGEADK--- 2853
Qy 2757 GEGQWLSLQPGABRLPLHSTPK-DGGPGPKAPWPGD--FGTTAKE----- 2800
Db 2854 ----WNPAGGPA-----HSTPKADALANHPAGWPDESLAGSDSEELDTEPHLKVKTV 2903
Qy 2801 -----SSNGAPEERLRENGDALREGSLGPIPGSSAOP---HGKILKKCL--PTIS 2848
Db 2904 SVELHQQAQNHGCDRPSDPESGVLAQ-----PVAVLSSQFQORQKILKNKYTPPLP 2958
Qy 2849 EK--SSILRLPLBQCTGSSRGS-SASEGRSGGPPP-----RPPPRQSLQEQNLGVMPI 2898
Db 2959 EQPLKSLREKLADCEQSPSSRTSSILSGSDGVHATDCVITIKTPREPREGHLNGV--- 3015
Qy 2899 AMSIKAGTVDEDSGSGE 2915
Db 3016 AMNVRTGSAQANGSDSE 3032

RESULT 13

US-09-737-149-30
; Sequence 30, Application US/09737149
; Patent No. US20020077466A1
; GENERAL INFORMATION:
; APPLICANT: Spaderna, Steven K
; APPLICANT: Quinn, Kerry E.
; APPLICANT: Shimkets, Richard A.
; APPLICANT: Muralidhara, Padigaru
; APPLICANT: Spytek, Kimberly A.
; TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-620 CIP
; CURRENT APPLICATION NUMBER: US/09/737,149
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/170,564
; PRIOR FILING DATE: 1999-12-14
; PRIOR APPLICATION NUMBER: 60/173,165
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: 60/173,362
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: 60/174,962
; PRIOR FILING DATE: 2000-01-07
; PRIOR APPLICATION NUMBER: 60/223,929
; PRIOR FILING DATE: 2000-08-09
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 30
; LENGTH: 3034
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-737-149-30

Query Match 57.7%; Score 8974.5; DB 9; Length 3034;

Best Local Similarity 57.3%; Pred. No. 0;

Matches 1730; Conservative 429; Mismatches 648; Indels 210; Gaps 39;

Qy	1	MRSPATGVLPPTPPPLLLLLLLLLPPPLGGDQVGCPSLGRGRGS-----S 48
Db	124	LRRSARGAELRSP-----AVRSVPLGLDAL--CFPAAGGGAASLTSVLEAITNPPA 172
Qy	49	GACAPM-----GWLCL-PSSASNLWLTSRCDAGTGLTGLVPHHDGLRVNCPSESA 99
Db	173	CSCEPVAGTCRRGPICLRPGSSAELRLVCAALGRAAGA-----VWV----- 213
Qy	100	HIPLPPAPEGCPWSCRLLGGHLSPOGKLTLPPEHPCLKAPRLRCOSCKLAQAPLRAG 159
Db	214	-----ELVIQATSGTPSPSPV-SPSL-----LNLSP-----RAG 243
Qy	160	--BRSPRESLGRKRNVNTAPQPPSYQATVPENQAGTTPVASLRAIDPDEGEAGLE 217
Db	244	VWRSS-----RGTGSGTSPPQPLPSYQVSPVPEPNAGTAVTELRAHDPEDEGAGLS 296
Qy	218	YTMALFDSRNSQFSLDPVTGAVTTABELDRETKSTHVPRTVAQDHGMPRRSALATLI 277
Db	297	YQMEALFDSRNGYFLDAATGAVTTARSLDRETKDTHLVKSAVDHGSFRSNAITLV 356
Qy	278	LVTDTNDHDPVFEQEQYKESLRENLEVGVEYLTVRATDGDAPPNANTLYRLLEGSGSPS 337
Db	357	TVSDTNDHSPVFEQSEYRERIRENLEVGVEYLTVRATDGDAPSANNMRYLLEGAGG-- 413
Qy	338	EVEIDPRSGVIRTRGPVDRREVSQITVEASDQGRDGPGRSTTAAVLSVEDDNDNAP 397
Db	414	-VFEIDARSGVIRTRAVVDREAAEYQLLVEANDQGRNPGPLSASATVHIWVEDENDNYP 472
Qy	398	QPSKRVVQVREDVTPGAPVLRVTASDRKGSNAVVHYSITMSGNARGQFVLDAQTALD 457
Db	473	QPSKRVVQVQVEDVAVNTAVLRVQATDRDQGNAAIHYISIVSGNLKQGFTYLSLSGLD 532

Qy	458	VSPLDYETTKYTLRVRAQDGGRRPPLSNVSGLVTVOVLINDNAPIFVSTPPQATVLES 517
Db	533	VINPLDFEAIREYTLRIKAQDGGRRPPLINSGLSVQVLDVNDNAPIFVSPFFQAAVLN 592
Qy	518	VPLGLVLHVQADADADAGNARLEYRLAGVCH-----DEPFTINNCTG 560
Db	593	VPLGHSVLHIQAVDADAGENARLQYRLVDVTASTIVGSSVDSNPASAPDPFFQIHNSG 652
Qy	561	WISVAELDREEDVFSFGVEARDHGTPTALTASASVSVTLVDVNDNNPTFTQPYTVRLN 620
Db	653	WITVCAELDREVEHYSFGVEAVDHGSPAMSSASVITVLVDVNDNDPMFTQPVVELRLN 712
Qy	621	EDAAVGSVVTVSNAVDRAHSAVITYQITSGNTRNRFISITSGGGLSVSLALPLDKLERQ 680
Db	713	EDAAVGSSVLTLRARDRANSVITYQITGNTNRNRFALSSQSGGLITLALPLDKYQERQ 772
Qy	681	YVLAVTASDGTRODTAQIVNVNVDANTHRVPFOSSHVTYVNVNEDRPAGTIVLLISATDED 740
Db	773	YVLAVTASDGTSTRHTAQVFINVDANTHRVPFOSSHVTYVNVNEDRPAGTIVLLISATDED 832
Qy	741	TGENARITYFMEDSIPOFRIDADTGAVTQABLDYEDQVSYTLAITARDNGIPQKSDTTY 800
Db	833	TGENARITYVLEDVPQFRIDPDTGTIYTWTELDYEDQAAVTLAITAQDNGIPQKSDTTS 892
Qy	801	LEILVNDVNDNAQFLDSYQGSVYEDVPFTSVLQISATDRDGLNGRVFTYFQGGDGG 860
Db	893	LEILILDANDNAPRFLDRFYQGSVYEDAPPSTSVLQVSATDRDGPNGRLTYTFQGGDGG 952
Qy	861	DGDFIVESTSGIVRTLRLRLRENVAQVLRAYAVDKGMP-PARTPMEVTVTVLVDVNDNPP 919
Db	953	DGDFYIEPTSGVIRTQRLRLRENVAVYNLWALAVDRGSPNPLSASVGIQVSVLVDINDNPP 1012
Qy	920	VFEQDEPDFVEENSPITGLAVARTATDPDEGNTNAQIMYQIVEGNIPEVFOLDIFSGBELT 979
Db	1013	VFEKDELELPVEENSPVGSVVARIRANDPDEGNAQIYQIVEGNEVPEVFOLDLLSGDLR 1072
Qy	980	ALVDLDYEDRPEYVLVQATSAPLVSATVHVRLLDNDNDPPVLGNFILLNNYVNWESS 1039
Db	1073	ALVELDFEVRDYMVLVQATSAPLVSATVHRIILLDQNDNDPPPELPDQILFNNTVNTKSN 1132
Qy	1040	SFPGGAIGRVPAHDPPDISDLTYSFERGNELSVLLNASTGELKLSALDNNRPLEATMS 1099
Db	1133	SFSGVIGRIIPAHDDPDLSDSLNTYFFLOGNELSLLLLPATGELQLSRDLDNNRPLEALME 1192
Qy	1100	VLVSDGSHVSTAQALRVITITDEMILTHSITLRLEDMSPERFLSPLGLFQIAVAATLAT 1159
Db	1193	VSUSDGSHSVTALCTLRVTIITDDMLTNSITVRLNMSQEKFLSPLLSLFEVGVATVLST 1252
Qy	1160	PDHVVFVNVQRTDAPGGHILNVSLVSGOPPGGGGPPFLPSDLOERLYNRSLLTAL 1219
Db	1253	TKDDIFVFNITQNDTV--SSNILNVTFSSALLPFGGTG--RFFPSEDLOEQIYLNRTLLTI 1309
Qy	1220	SAORVLPDDNICLRBPCENMRCVSVLRFDSSAPFTASSSVLRPPIHPVGLRCRCPPG 1279
Db	1310	SAORVLPDDNICLRBPCENMKCVSVLRFDSSAPFTSSITVLPFRPIHPITGLRCRCPPG 1369
Qy	1280	FTGDYCEYEDLVCYRPGPHGCRSREGGYTCLCRDGYTGEHCEVSARSGRCTPGVCNK 1339
Db	1370	FTGDYCEYEDLVCYRPGGANGCRSREGGYTCBCEFDFTGEHCQVNVRSGRKASGVCKN 1429
Qy	1340	GGTCVNLVGGFKDCPSGDFEKPICYQVTRSPAHFSITFRGLRQRFHTLALSPATKE 1399
Db	1430	GGTCVNLVGGFKDCPSGDFEKPICYQVTRSPAHFSITFRGLRQRFHTLALSPATKE 1489
Qy	1400	RDGLLYNGRPNKHDPALEVEEQQLTFSAGETITTTVTPQVPGVSDGQWHTVOLKY 1459
Db	1490	RNALLYNGRPNKHDPALEVEEQQLTFSAGETITTTVTPQVPGVSDGQWHTVOLKY 1549
Qy	1460	YNKPLLQOTGLPQSPGEQKVAVTVVDCDGTGVALRFGSVLGNYSCAAQGTGGSKKSLDL 1519
Db	1550	YNKFNIGHGLPHGPGSEKVAVTVVDDCAAVAHVFGSVGNYSCAAQGTGGSKKSLDL 1609
Qy	1520	TGPLLLGGVDPDPSPFVRMRQFVGCNRLNQVDSRHTDMADFIANNNGTVPGCPAKKNVCD 1579

Qy	49	GACAPM-----CWL C--PSSASNLMWYTSRCRDAGTETGHLVPHHDGLRVWCPSESA	99
Db	173	CSCPVPVAGTGCRRGPICLRPGGSAELRLVCAIGRAAGA-----VWV-----	213
Qy	100	HILPPLPAPGPCWSCRLLIGTGHLSPOGKULTPEEHFCLKAPRLRCOSCKLAQAPGLRAG	159
Db	214	-----ELVIGATSGTSPSESPSV-SPSL-----LNLSP-----RAG	243
Qy	160	--ERSPESLGGRRKRNVTAPQPPQPSYQATVPENOPAGTFVASLRAIDPDEGEAGRL	217
Db	244	WRRS-----RGTGSSHSFQPLPSYQVSVENEPAGTAVIELRAHPDEGDAGRLS	296
Qy	218	YTMALFDSRNOFFSLDPVTGAVTTABEILDRETKSTHFRVTTAQDHGMPRRSALATITI	277
Db	297	YQMEALFDSRNGYFLIDAAATGAVTTARSILDRETCTHVLKVSADVHGSPPRSAAATLTV	356
Qy	278	LVTDTNDHDPVEQOEYKESIRENLREYGVYEVLTVRATDGPAPPNANTLYLLEBGSQSPS	337
Db	357	TVSDTNHDSVPFEQSEYRERIRENLREYGVYEVLTIRATDGDAPSANNRYYLLEGAGG--	413
Qy	338	EVPEIDPRSGVIRTRGPPVDREEVESYOLTVEASDQGRDPGRSRTTAAVFLSVEDNDNAP	397
Db	414	-VFEBIDARSGVVRTRAVVDREEAAYQLLVEANDQGRNPGPLSASATVHIVEDENDYP	472
Qy	398	QFSEKRYVVOVREDVTGPVLRVTASDRDKGSNAVHYHSIMSGNARGQFYLDQAQTCALD	457
Db	473	QFSEKRYVVOVPEDVAVNTAVLRVQATDRDQGNAAIHYISVSGNLKGQFYHLSLSGSLD	532
Qy	458	WVSPLDYETTKETYLVRAGDGGRPPLSUNVSGLVTVOVLIDNNAPITFVSTPFOATVLES	517
Db	533	VINPLDPEAREYETRLTKAODGGRPPILNSSLVSVQVLDVNDNNAPITFVSSPFOAAVLEN	592
Qy	518	VELGYLVLRVQADADAGDNARLEYRLAGVGH-----DPPTTINNGTG	560
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Qy	561	WISVAABELDREEDVDFYSGFEARDHGTPALTATASASVSVTVLVDNDNNMPTTQPEYTVRLN	620
Db	653	WITVCAELDREVEHYSGFEAVDHGSPAMSSASVSI TVLVDNDNDPMFTQPVYELRLN	712
Qy	621	EDAAVGTSVTVTSADVDRDAHSVITYQITSGNTRNRFSITQSGGGLVSLALPDYKULERQ	680
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Qy	681	YVLAVTASDGTRODTAQIVNVNTDANTHRVPFQSSHVTNVNEDRPAGITVVLISATDED	740
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Qy	741	TGENARITYFMEDSIPQFRIDADTGAVTTOAELDYEDQVSVTLTATARDNGIPKQSDTTY	800
Db	833	TGENARITYVLEDVPQFRIDPDGTITYTWTELDYEQAAYTLTATARDNGIPKQSDTTS	892
Qy	801	LEILVNDVNDNAPOFLRDSYQGSVYEDVPFPTSVLQISATDRDSGLNGRVFYTFQGGDDG	860
Db	893	LEILILDANDNAPEFLRDFYQGSVFEDAPFSTSVLQVYSATDRDSGPNRLLXTFQGGDDG	952
Qy	861	DGDPVESTSGIVTTLRRLDRENVAVQLRAYAVDKMP-PARTPMEVTVTVLVDNDNPP	919
Db	953	DGDPYIEFTSGVTRQRLDRENVAVNLWALAVDRGSPNPLSASVGIQVSVLIDINDNPP	1012
Qy	920	VEQBQEDPDPVFEENSPIGLAVARVTADPBGTTNAQIMYOIVGNIPEVFOLDIFSGELT	979
Db	1013	VFEKDELELFEENSPPGVSVVARIRANDPDEGNAQIIYQIVGEGNPEVFOLDLLSDGLR	1072
Qy	980	ALVDLDYEDRPEYVLVIQATSAPLVSATVVRLLDRDNDPPVLGNPEILFNNTVTRSS	1039
Db	1073	ALVELDEVRDRYMLVVQATSAPLVSATVVRLLDQNDNPPELPDPQILLFNNTVTKSN	1132
Qy	1040	SFPGGATGRVPAHDPDIDSLSITYSFERGNELSLVLLNASTGELKLSRDLONNRPLEAIMS	1099
Db	1133	SFSPSGVIGRIPAHDPDIDSLSINTYFLQGNELSLILLDPATGELQLSRDLONNRPLEALME	1192

Qy	1100	VLVSDGVHSTVAQALRAVTTITIDEMLTHTSITLBLEDMSPERFISPLILGLPIQAVANTLAT	11159
Db	1193	VSVSDGHSHTALTCTTAVTTITIDMLTNSITVLENNMSQBFISPLISLFEVGVATVLS	1252
Qy	1160	PPDHVVVFNQRTDAPGHILNVSISVGOPPGCGGPPLPESDLOERLYLNRSLLTAT	1219
Db	1253	TKDIFVFNLONDIV-SSNILNVTFSALLPGGTG--RFPFSEDLQOEYILNRTILUTTI	1309
Qy	1220	SAORVLPFDNNICLIREPCENYMCVSLRPDSSAPFIASSVLFRIPIHPVGGJLRCRCPPG	1279
Db	1310	SAORVLPFDNNICLIREPCENYMCVSLRPDSSAPFISSTTVLFRPIHPITGLRCRCPPG	1369
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Qy	1340	GGTCVNLVGGFKDCPCSDGFEPKPYCOVTRSPAHSEFITFGLRQREHFTLALSFKTE	1399
Db	1430	GGTCVNLILGGFHCVCPPGSEYHPYCEVSTRSPFQSFVTFGLRQRFHFTVLSLATQD	1489
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Qy	1460	YNKPLLGQTCGLPOGPSEQKVAVTVTDCGTGVALRFGSVLGNYSCAAQGTGGSKSLDL	1519
Db	1550	YNKPNIGHLGLPHGPSGEKVAVTVTDDCAAVAHVHFGSVYGNYSCAAQGTGSKSKSLDL	1609
Qy	1520	TGPLLGGVPDLBESPPVRMROFVGCWRNLQVDSRHIDMADFTANNQTVPGCCPAKKNVCD	1579
Db	1610	TGPLLGGVNLPEDFPVHSRQFVGCWRNLISIDRITVDMAAF-TANNQTRAGCASQRNFCD	1669
Qy	1580	SNTECHNGGTCVNOWDAFSCBCLPGFGKSCAQBMANPOHPLGSLVAWHGSLSLPISOPWY	1639
Db	1670	GTSCQNGETCVNRWNYLCECPLRFGKNCQEAQMPHQPORFTGESVVLWSDLDITISVPWY	1729
Qy	1640	LSLMFRTRQADGVLLQAITRGSTITITLQREBHVMLSVEGTGLQASLSRLEPGRANDGDW	1699
Db	1730	LGLMFRTRKEDGVLMTEAGTSSRLHLQILNYSVIRFEVSVYSGPDVASMQLSKSRTDGGW	1789
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Db	1790	HHLLIEL-LSAKEGDKIYLAVMNTLYDGMQSTVQIGNQLPGLMRTIIVGGYTEDKVS	1848
Qy	1755	ARGFRGLQVRYSVDTPEGVNSLDPSHGESINVEQCSLDPDPCDSNPCPANSYCSNDWDS	1814
Db	1849	RHGFRGCMQVRMGETSTNTJATLNMMDALKVRVKDGDVEDPCASSFCPPHRRPCRDWDS	1908
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Qy	1875	PRGMWGHPTCGPCNCDVSKGFDPCNKTISGBCHKXNHYPGSPGTCCLICDCYPTGSLSR	1934
Db	1969	PKGMWGNPVGCPCHCAVSQGFDPDCKNTNGCQCKENYKPPAQDAACLPCDCPFGHSGSR	2028
Qy	1935	VCDPEGOCCKEGVITGROCDRCNDNPAEVTYNGCEVNDVSCPRATEAGIWMPTRTFGLP	1994
Db	2029	ACDMDTGQCAKCPGVITGROCNRCNDNPAEVTISLGCSVINYNGCPRAFEAGIWMPTKFGQP	2088
Qy	1995	AAAPCPKSGPTAVRHCDHRGWLPPNLFNCTSIPTSELKGFAERLORNESGLDSCRQQ	2054
Db	2089	AAVPCPKSGVGNVHRCSGEKGMPLPELFNCTSGSFVDLKALNEKLNRNRETMDGNRSR	2148
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Db	2149	LAXALRNATQGNSTLFGNDVRTAYQIARILQHESRQOGFDLAATREANFHDVWHTGSA	2208
Qy	2115	LLOTANKRHWELLQOETGEGTAMLLQHYEAYASALAQMRHTYLSPTTIVTPNIVISVRL	2174
Db	2209	LAPATAEASWEQIQRSSEAGAAQLRREHFEAYFNSVARNVKTITLPPFVITVANNILAVDIF	2268
Qy	2175	DKGNFAGAKUPRYEALRGEOPDLTETVILPESV-----RETPEVVR-----PAGE	2221

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Qy 2282 VVSVSHDDELLPRALDKPVTVQFRLEETKPKICVFNHSHILVSGTGWGARSCEV 2341
Db 2389 VVSAVTVSEGTPLPSSLQRPILVEFSLETERSKPVCFVWNHSLDTCGGTGWGAKGCEL 2448
Qy 2342 VFNESHVSCQCHNMTSFVAVLMDVSRRENGEILPKTLTTLVAGLVITLAAALLFFFTLL 2401
Db 2449 LSRNTHVTCQCHSASCALVMDISREHGEVLPKIIITYAALSLSVALLVAVLLSLV 2508
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Db 2569 LHVRMLTEVRNIDTGMRFTHVVGWGIPLVTLVGLDPPQGGVGNDFCWLSDQDTLIW 2628
Qy 2522 SFAGPVAFVMSVFLYILAAASCAARQOGFEKKGVSGLOPFSFAVLLLSATLWLLALL 2581
Db 2629 SFAGPVGTIIINTVIFVLSAKVSCQRKHYYERKGVVSMRTAFALLLLVTAATWLLGLL 2688
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RESULT 15

US-10-139-854-70
; Sequence 70, Application US/10139854
; Publication No. US20030202971A1
; GENERAL INFORMATION:
; APPLICANT: Majumder, Kumud
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-675CON2
; CURRENT APPLICATION NUMBER: US/10139, 854
; CURRENT FILING DATE: 2002-12-02
; PRIOR APPLICATION NUMBER: 09/783,429
; PRIOR FILING DATE: 2001-02-14
; PRIOR APPLICATION NUMBER: 60/182,733
; PRIOR FILING DATE: 2000-02-15
; PRIOR APPLICATION NUMBER: 60/182,724
; PRIOR FILING DATE: 2000-02-15
; PRIOR APPLICATION NUMBER: 60/183,896

; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: 60/184,497
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 60/224,157
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/184,482
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 60/184,744
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/197,083
; PRIOR FILING DATE: 2000-04-13
; PRIOR APPLICATION NUMBER: 60/233,405
; PRIOR FILING DATE: 2000-09-18
; Remaining prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 126
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 70
; LENGTH: 3034
; TYPE: PRT
; ORGANISM: Mus musculus
; US-10-139-854-70

Query Match 57.7%; Score 8974.5; DB 15; Length 3034;
Best Local Similarity 57.3%; Pred. No. 0;
Matches 1730; Conservative 429; Mismatches 648; Indels 210; Gaps 39;

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Db 124 LRSARGAELRSP-----AVRSVFGIGDAL--CFPAAGGAASLTSVLBAINTFPA 172
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Db 297 YQMEALFDRSNGCYFLDAATGAVTTARSIDRETQTHLVKVSADVHGSRRSAATVLT 356
Qy 278 LVTTDNDHDPVFQOQYKESLRENLEVGVEVLTVRATDGPAPNANILYLLGSGSGSPS 337
Db 357 TVSDTNDHSPVFPQSEYRERIRENLEVGVEVLTVRATDGPAPNANIRYLLGAGG--- 413
Qy 338 EFFEIDPRSGVIRTRGPDVEEVEESVQLTVEASDQGRDPRSTTAAVFLSVEDDNDNAP 397
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Qy 458 VVSPLDYETTKYVTLRVRAQDGRPPPLSNVSGLVTVTVQVLDINDNAPIFVSTPPQATVLES 517
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Qy 561 WISVAEELDREEDVYFSFGVEARDHGTPTALTASASVTVLDVNDNNFTPTQETVYRLN 620
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Db      3016 AMNVRTGSAQANGSDSE 3032

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OM protein - protein search, using sw model

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Perfect score: 2923
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Gapop 60.0 , Gapext 60.0

Searched: 513545 seqs, 74649064 residues

Word size : 0

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	21	0.7	44	1	Sequence 16, Appl
2	21	0.7	44	1	Sequence 16, Appl
3	21	0.7	44	1	Sequence 16, Appl
4	21	0.7	44	1	Sequence 16, Appl
5	21	0.7	44	2	Sequence 16, Appl
6	21	0.7	44	3	Sequence 16, Appl
7	21	0.7	44	5	Sequence 16, Appl
8	21	0.7	44	5	Sequence 16, Appl
9	18	0.6	884	2	Sequence 2, Appl
10	18	0.6	884	2	Sequence 2, Appl
11	15	0.5	43	1	Sequence 83, Appl
12	15	0.5	43	1	Sequence 83, Appl
13	15	0.5	43	1	Sequence 83, Appl
14	15	0.5	43	1	Sequence 83, Appl
15	15	0.5	43	2	Sequence 83, Appl
16	15	0.5	43	3	Sequence 83, Appl
17	15	0.5	43	5	Sequence 83, Appl
18	15	0.5	43	5	Sequence 83, Appl
19	13	0.4	311	2	Sequence 9, Appl
20	13	0.4	467	4	Sequence 134, App
21	13	0.4	467	4	Sequence 195, App
22	13	0.4	467	4	Sequence 195, App
23	13	0.4	467	4	Sequence 195, App
24	13	0.4	467	4	Sequence 195, App
25	13	0.4	467	4	Sequence 195, App
26	13	0.4	467	4	Sequence 195, App
27	13	0.4	467	4	Sequence 195, App

ALIGNMENTS

RESULT 1

US-07-998-003A-16
; Sequence 16, Application US/07998003A
; Patent No. 5643781
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; ADDRESSEE: Bicknell
; STREET: 20 South Clark Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/998,003A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5643781and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 30903
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/346-5750
; TELEFAX: 312/984-9740
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 44 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-998-003A-16

Query Match 0.7%; Score 21; DB 1; Length 44;
Best Local Similarity 100.0%; Pred. No. 9e-11;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 483 PLSNVSLGTVQVLDINDNAP 503

Db 24 PLSNVSLGTVQVLDINDNAP 44

RESULT 2
US-08-453-274B-16
; Sequence 16, Application US/08453274B
; Patent No. 5663300
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; City: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/453,274B
; FILING DATE: 30-MAY-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5663300and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 32660
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 44 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-453-274B-16
Query Match 0.7%; Score 21; DB 1; Length 44;
Best Local Similarity 100.0%; Pred. No. 9e-11;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 483 PLSNVSGLVTVQVLDINDNAP 503
Db 24 PLSNVSGLVTVQVLDINDNAP 44
RESULT 3
US-08-453-695A-16
; Sequence 16, Application US/08453695A
; Patent No. 5708143
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 115
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; STREET: 233 South Wacker, 6300 Sears Tower
; City: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/453,695A

FILING DATE:
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: No. 5708143and, Greta E.
REGISTRATION NUMBER: 35,302
REFERENCE/DOCKET NUMBER: 32658
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 44 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-453-695A-16
Query Match 0.7%; Score 21; DB 1; Length 44;
Best Local Similarity 100.0%; Pred. No. 9e-11;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 483 PLSNVSGLVTVQVLDINDNAP 503
Db 24 PLSNVSGLVTVQVLDINDNAP 44
RESULT 4
US-08-268-161A-16
; Sequence 16, Application US/08268161A
; Patent No. 5798224
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 115
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; STREET: 233 South Wacker, 6300 Sears Tower
; City: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/268,161A
; FILING DATE: June 27, 1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Young J. Suh
; REGISTRATION NUMBER: P-41,337
; REFERENCE/DOCKET NUMBER: 27866/32149
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 44 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-268-161A-16
Query Match 0.7%; Score 21; DB 1; Length 44;
Best Local Similarity 100.0%; Pred. No. 9e-11;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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; SEQUENCE CHARACTERISTICS:
; LENGTH: 44 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US93-12588-16

Query Match 0.7%; Score 21; DB 5; Length 44;
Best Local Similarity 100.0%; Pred. No. 9e-11;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 483 PLSNVSLVTVQVLDINDNAP 503
Db 24 PLSNVSLVTVQVLDINDNAP 44

RESULT 8

PCT-US95-08071-16
; Sequence 16, Application PC/TUS9508071
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 115
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; ADDRESSEE: Borun
; STREET: 6300 Sears Tower, 233 S. Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/08071
; FILING DATE:
; CLASSIFICATION:

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/12588
; FILING DATE: 23 DEC 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/998,003
; FILING DATE: 29 DEC 1992

; ATTORNEY/AGENT INFORMATION:
; NAME: Noland, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 32149
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856

; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 44 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US95-08071-16

Query Match 0.7%; Score 21; DB 5; Length 44;
Best Local Similarity 100.0%; Pred. No. 9e-11;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 483 PLSNVSLVTVQVLDINDNAP 503
Db 24 PLSNVSLVTVQVLDINDNAP 44

RESULT 9

US-08-465-976A-2
; Sequence 2, Application US/08465976A
; Patent No. 5869632
; GENERAL INFORMATION:
; APPLICANT: SOPPET, DANIEL R
; APPLICANT: LI, YI
; APPLICANT: ROSEN, CRAIG A
; APPLICANT: RUBEN, STEVEN M
; TITLE OF INVENTION: HUMAN G-PROTEIN RECEPTOR
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: CARELIA, BYRNE, BAIN GILFILLAN, CECCHI
; ADDRESSEE: STEWART & OLSTEIN
; STREET: 6 BECKER FARM ROAD
; CITY: ROSELAND
; STATE: NJ
; COUNTRY: US
; ZIP: 07068

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/465,976A
; FILING DATE: 06-JUN-1995

; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: FERRARO, GREGORY F
; REGISTRATION NUMBER: 36,134
; REFERENCE/DOCKET NUMBER: 325800-444
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (201) 994-1700
; TELEFAX: (201) 994-1744

; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 884 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-465-976A-2

Query Match 0.6%; Score 18; DB 2; Length 884;
Best Local Similarity 100.0%; Pred. No. 6.4e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2495 GLAVGLDPEGYGNPDFCW 2512
Db 220 GLAVGLDPEGYGNPDFCW 237

RESULT 10

US-08-982-412-2
; Sequence 2, Application US/08982412
; Patent No. 5958729
; GENERAL INFORMATION:
; APPLICANT: SOPPET, DANIEL R
; APPLICANT: LI, YI
; APPLICANT: ROSEN, CRAIG A
; APPLICANT: RUBEN, STEVEN M
; TITLE OF INVENTION: HUMAN G-PROTEIN RECEPTOR
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: HUMAN GENOME SCIENCES, INC.
; STREET: 9410 KEY WEST AVENUE
; CITY: ROCKVILLE,
; STATE: MD
; COUNTRY: US
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/982.412
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: BROOKES, ANDERS A
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PF181PCT2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8439
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 884 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-982-412-2
;
Query Match 0.6%; Score 18; DB 2; Length 884;
Best Local Similarity 100.0%; Pred. No. 6.4e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2495 GLAVGLDPGYNPDFCW 2512
Db 220 GLAVGLDPGYNPDFCW 237

RESULT 11
US-07-998-003A-83
; Sequence 83, Application US/07998003A
; Patent No. 5643781
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; STREET: 20 South Clark Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/998.003A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5643781and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 30903
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/346-5750
; TELEFAX: 312/984-9740
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 83:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 43 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-998-003A-83
;
Query Match 0.5%; Score 15; DB 1; Length 43;

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Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy .791 GIPQSDTTYLEILV 805
Db 21 GIPQSDTTYLEILV 35

RESULT 12
US-08-453-274B-83
; Sequence 83, Application US/08453274B
; Patent No. 5663300
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/453,274B
; FILING DATE: 30-MAY-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5663300and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 32660
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 83:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 43 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-453-274B-83
;
Query Match 0.5%; Score 15; DB 1; Length 43;
Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 791 GIPQSDTTYLEILV 805
Db 21 GIPQSDTTYLEILV 35

RESULT 13
US-08-453-695A-83
; Sequence 83, Application US/08453695A
; Patent No. 5708143
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 115
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; STREET: 233 South Wacker, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606

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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/453,695A
FILING DATE:
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: No. 5708143and, Greta E.
REGISTRATION NUMBER: 35,302
REFERENCE/DOCKET NUMBER: 32658
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 83:
SEQUENCE CHARACTERISTICS:
LENGTH: 43 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-453-695A-83

Query Match 0.5%, Score 15; DB 1; Length 43;
Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 791 GIPQKSDTTYLEILV 805
DB 21 GIPQKSDTTYLEILV 35

RESULT 14
US-08-268-161A-83
Sequence 83, Application US/08268161A
Patent No. 5798224
GENERAL INFORMATION:
APPLICANT: Suzuki, Shintaro
TITLE OF INVENTION: Protocadherin Materials and Methods
NUMBER OF SEQUENCES: 115
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
ADDRESS: 233 South Wacker, 6300 Sears Tower
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
FILING DATE: June 27, 1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Young J. Suh
REGISTRATION NUMBER: P-41,337
REFERENCE/DOCKET NUMBER: 27866/32149
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 83:
SEQUENCE CHARACTERISTICS:
LENGTH: 43 amino acids
TYPE: amino acid
STRANDEDNESS: single

TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-268-161A-83

Query Match 0.5%, Score 15; DB 1; Length 43;
Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 791 GIPQKSDTTYLEILV 805
DB 21 GIPQKSDTTYLEILV 35

RESULT 15
US-08-453-702A-83
Sequence 83, Application US/08453702A
Patent No. 5891706
GENERAL INFORMATION:
APPLICANT: Suzuki, Shintaro
TITLE OF INVENTION: Protocadherin Materials and Methods
NUMBER OF SEQUENCES: 115
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
ADDRESS: 233 South Wacker, 6300 Sears Tower
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: No. 5891706and, Greta E.
REGISTRATION NUMBER: 35,302
REFERENCE/DOCKET NUMBER: 32657
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 83:
SEQUENCE CHARACTERISTICS:
LENGTH: 43 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-453-702A-83

Query Match 0.5%, Score 15; DB 2; Length 43;
Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 791 GIPQKSDTTYLEILV 805
DB 21 GIPQKSDTTYLEILV 35

Search completed: April 6, 2005, 14:16:42
Job time : 66 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 6, 2005, 14:11:38 ; Search time 250 Seconds
(without alignments)
3881.712 Million cell updates/sec

Title: US-09-916-849A-3
Perfect score: 2923
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Minimum DB seq length: 0

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- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	2923	100.0	2923	10	US-09-916-849A-3
3	2923	100.0	2923	14	US-10-225-567A-524
4	2923	100.0	2923	14	US-10-174-677-29
5	2923	100.0	2923	15	US-10-120-801-53
6	2923	100.0	2923	15	US-10-292-798-932
7	2923	100.0	2923	15	US-10-038-854-70
8	2837	97.1	2956	9	US-09-788-711A-2
9	2018	69.0	2560	15	US-10-276-774-1774
10	1958	67.0	2936	15	US-10-311-623-9
11	534	18.3	568	9	US-09-843-856-2
12	485	16.6	565	14	US-10-176-847-100
13	281	9.6	568	15	US-10-264-237-2041

14	281	9.6	717	9	US-09-925-300-1299	Sequence 1299, Ap
15	179	6.1	646	14	US-10-017-161-1096	Sequence 1096, Ap
16	168	5.7	2920	15	US-10-038-854-71	Sequence 71, Appl
17	118	4.0	219	9	US-09-764-870-331	Sequence 331, App
18	118	4.0	219	14	US-10-125-540-331	Sequence 331, App
19	100	3.4	111	9	US-09-764-870-479	Sequence 479, App
20	100	3.4	111	14	US-10-125-540-479	Sequence 479, App
21	82	2.8	96	9	US-09-764-893-108	Sequence 108, App
22	82	2.8	96	9	US-09-764-881-94	Sequence 94, Appl
23	82	2.8	96	9	US-09-764-853-659	Sequence 659, App
24	82	2.8	96	9	US-09-764-898-286	Sequence 286, App
25	82	2.8	96	10	US-09-764-881-94	Sequence 94, Appl
26	82	2.8	96	14	US-10-073-865-108	Sequence 108, App
27	82	2.8	96	15	US-10-242-747-94	Sequence 94, Appl
28	59	2.0	174	14	US-10-017-161-1688	Sequence 1688, Ap
29	42	1.4	141	9	US-09-764-870-335	Sequence 335, App
30	42	1.4	141	14	US-10-125-540-335	Sequence 335, App
31	23	0.8	3034	9	US-09-737-149-25	Sequence 25, Appl
32	23	0.8	3034	9	US-09-737-149-30	Sequence 30, Appl
33	23	0.8	3034	14	US-10-131-409-70	Sequence 70, Appl
34	23	0.8	3034	15	US-10-139-854-70	Sequence 52, Appl
35	23	0.8	3034	15	US-10-120-801-52	Sequence 70, Appl
36	23	0.8	3034	15	US-10-150-813-70	Sequence 70, Appl
37	23	0.8	3034	15	US-10-150-811-70	Sequence 70, Appl
38	23	0.8	3034	15	US-10-701-283-25	Sequence 25, Appl
39	23	0.8	3034	15	US-10-701-283-30	Sequence 30, Appl
40	21	0.7	44	10	US-09-880-573-16	Sequence 16, Appl
41	20	0.7	20	10	US-09-916-849A-11	Sequence 11, Appl
42	20	0.7	20	14	US-10-225-567A-1886	Sequence 1886, Ap
43	20	0.7	20	14	US-10-225-567A-1887	Sequence 1887, Ap
44	20	0.7	1713	9	US-09-737-149-27	Sequence 27, Appl
45	20	0.7	1713	15	US-10-701-283-27	Sequence 27, Appl

ALIGNMENTS

RESULT 1

US-09-788-711A-4
; Sequence 4, Application US/09788711A
; Patent No. US20020058328A1
; GENERAL INFORMATION:
; APPLICANT: Tania Tamsin Testa
; TITLE OF INVENTION: NOVEL COMPOUNDS
; FILE REFERENCE: GP-30225
; CURRENT APPLICATION NUMBER: US/09/788,711A
; CURRENT FILING DATE: 2001-02-20
; PRIOR FILING DATE: 0004196.2
; PRIOR FILING DATE: 2000-02-19
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 2923
; TYPE: PRT
; ORGANISM: HOMO SAPIENS
; US-09-788-711A-4

Query Match	100.0%;	Score 2923;	DB 9;	Length 2923;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 2923;	Conservative	0;	Mismatches	0;
			Indels	0;
			Gaps	0;
Qy	1	MRSPATGVLPPTPPPPPLLLLLLLPPPLLDQVGPCRSLGSRGSGGACAPMGWLCP	60	
Db	1	MRSPATGVLPPTPPPPPLLLLLLLPPPLLDQVGPCRSLGSRGSGGACAPMGWLCP	60	
Qy	61	SASNLWYTSRCRDAGTGLTCHLVPHDGLRVWCPESEAHIPPPAEGCPCWCLLIG	120	
Db	61	SASNLWYTSRCRDAGTGLTCHLVPHDGLRVWCPESEAHIPPPAEGCPCWCLLIG	120	
Qy	121	GHLSPOQKLTPEHPCLKAPRLRCQSKLAQAPGLRAGERSPESLGGRKRNVTAPQ	180	
Db	121	GHLSPOQKLTPEHPCLKAPRLRCQSKLAQAPGLRAGERSPESLGGRKRNVTAPQ	180	

181 FQPPSYQATVPENOPAGTVPASLRADPDGEAGRLLEYTMDALFDSRKNQFFSLDPVTGA 240
181 FQPPSYQATVPENQAGTVPASLRADPDGEAGRLLEYTMDALFDSRKNQFFSLDPVTGA 240
241 VTTABEELDRKTHSVFRVTAQDHGMPPRRSALATLITLVTDNDHPVFEQYQYKESLRE 300
241 VTTABEELDRKTHSVFRVTAQDHGMPPRRSALATLITLVTDNDHPVFEQYQYKESLRE 300
301 NLEVGVEVLVTRATDGDAPNNAILYLLLEGSGGSPSEVPEIDPRSGVIRTRGPVDREEV 360
301 NLEVGVEVLVTRATDGDAPNNAILYLLLEGSGGSPSEVPEIDPRSGVIRTRGPVDREEV 360
361 ESYQLTVEASDQGRDPCPRSTTTAAVFLSVEDDNDNAPQPSKRYVQVREDVTPGAPVL 420
361 ESYQLTVEASDQGRDPCPRSTTTAAVFLSVEDDNDNAPQPSKRYVQVREDVTPGAPVL 420
421 VTASDRDKGSNAVVHYSIMSGNARGQFYLDQAQTGALDVVSLDYETTKYTLRVRADQGG 480
481 RPPLSNVSGLVTVQVLDINDNADIFVSTPQATVLESVPLGYLVLVHVAQIDADAGDNARL 540
481 RPPLSNVSGLVTVQVLDINDNADIFVSTPQATVLESVPLGYLVLVHVAQIDADAGDNARL 540
541 EYRLAGVGHDPPTTINNGTGMISVAEELDREEDVDFYSFGVEARDHGTPTALTASASVTV 600
541 EYRLAGVGHDPPTTINNGTGMISVAEELDREEDVDFYSFGVEARDHGTPTALTASASVTV 600
601 LDVNDNNPTTQPEYTVRLNEDAAVGTSSVTVSAVDRDAHSVITYQITSGTNRNRSITS 660
601 LDVNDNNPTTQPEYTVRLNEDAAVGTSSVTVSAVDRDAHSVITYQITSGTNRNRSITS 660
661 QSGGLVSLALPDLYKLERQYVLAVTASDGTRODTAQIVVNVTDANTHRPVFOSSHVTN 720
661 QSGGLVSLALPDLYKLERQYVLAVTASDGTRODTAQIVVNVTDANTHRPVFOSSHVTN 720
721 VNEDRPAGTTVLLISATDEDTGENARITYFMEWDSIQFRIADADTGAVTQAEILDYEDQVS 780
721 VNEDRPAGTTVLLISATDEDTGENARITYFMEWDSIQFRIADADTGAVTQAEILDYEDQVS 780
781 YTLAITARDNGIPKSDTTLVLEILVNDVNDNAQFLRDSYQGSVYEDVPPFTSVLQISAT 840
781 YTLAITARDNGIPKSDTTLVLEILVNDVNDNAQFLRDSYQGSVYEDVPPFTSVLQISAT 840
841 DRDGLNGRVFYTFQGGDDGDPFIVESTSGIVRTLRRLDRENVAQYVLAAYADKGMPP 900
841 DRDGLNGRVFYTFQGGDDGDPFIVESTSGIVRTLRRLDRENVAQYVLAAYADKGMPP 900
901 ARTPMEVTVTVLDVNDNPPVFEQDERDVFVEENSPIGLAVARVTATDPDEGTNAQIMYQI 960
901 ARTPMEVTVTVLDVNDNPPVFEQDERDVFVEENSPIGLAVARVTATDPDEGTNAQIMYQI 960
961 VEGNIPEVFOQIDIFSGELTALVDLYEDRPEYVLVIQATSAPLVSRATVHVRLLDRNDNP 1020
961 VEGNIPEVFOQIDIFSGELTALVDLYEDRPEYVLVIQATSAPLVSRATVHVRLLDRNDNP 1020
1021 PVLGNFELFNYYNTRNSSFPGGAIGRVPAHDPPDISDLSITYFERGNELSLVLLNASTG 1080
1021 PVLGNFELFNYYNTRNSSFPGGAIGRVPAHDPPDISDLSITYFERGNELSLVLLNASTG 1080
1081 ELKLSRALDNNRPLEATMSVLSDGVHSTVAQCALRTVITIDBMLTHSITLRLEDMSPER 1140
1081 ELKLSRALDNNRPLEATMSVLSDGVHSTVAQCALRTVITIDBMLTHSITLRLEDMSPER 1140
1141 FLSPLLGLFIQAAVATLATPPDHVVFNVDQTDAPGGHILNYSLSVGPPGPGPPFL 1200
1141 FLSPLLGLFIQAAVATLATPPDHVVFNVDQTDAPGGHILNYSLSVGPPGPGPPFL 1200
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1201 PSEDLOERLYLNRSLLTAISAQORVLPDDNICALREPCENTMRCVSVLRFDSSAPPTASSS 1260
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1261 VLFPRPIHPVGLRCRCRCPPGFTGDIYCEDEVLDLCYSRPGPHGRCSRREGGYTCLCRDGYTG 1320
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1321 EHCEVSARSGRCTPGVCXNGGTCVNLLVGGFKCDPCSPGDBPKPYCQVTTTSPFAHSITFP 1380
1381 RGLQRPHFTLALSFATKERDGLLLYNGRPFNEKHDFALEVIQEQVOLTFESAGSSTTTVS 1440
1381 RGLQRPHFTLALSFATKERDGLLLYNGRPFNEKHDFALEVIQEQVOLTFESAGSSTTTVS 1440
1441 PFVPGGVSDDGQHWHTVQLKYINKPLLGQTLPGQPSQKQKVAVVTVDGCDTGVALRFGSVLG 1500
1441 PFVPGGVSDDGQHWHTVQLKYINKPLLGQTLPGQPSQKQKVAVVTVDGCDTGVALRFGSVLG 1500
1501 NYSCAAQQTQGGSKSLDLTGPLLLGGVDPDLPESFPVVRMQFVGCMMNLQVDSRHIDMAD 1560
1501 NYSCAAQQTQGGSKSLDLTGPLLLGGVDPDLPESFPVVRMQFVGCMMNLQVDSRHIDMAD 1560
1561 FIANNQTVPGCPAKKNVCDNNTCHNGGTCVNQWDAFSCCEPLGFGGKSCAQEMANPOHFL 1620
1561 FIANNQTVPGCPAKKNVCDNNTCHNGGTCVNQWDAFSCCEPLGFGGKSCAQEMANPOHFL 1620
1621 GSSLVAMHGLSLPISQPMYLSLMFRTQADGVLLQAITRGRSTITLQLRREGHVMLSVEGT 1680
1621 GSSLVAMHGLSLPISQPMYLSLMFRTQADGVLLQAITRGRSTITLQLRREGHVMLSVEGT 1680
1681 GLQASSLRLEPRANDGDWHHAQALGASGPGHAILISFDYQOQRAEGNLGPRHLGLHLS 1740
1681 GLQASSLRLEPRANDGDWHHAQALGASGPGHAILISFDYQOQRAEGNLGPRHLGLHLS 1740
1741 NITVGGIPGAGGVARGPRGCLQGVVSDTPEGVNSLDPSHGESINVEQCSLPDPCDSN 1800
1741 NITVGGIPGAGGVARGPRGCLQGVVSDTPEGVNSLDPSHGESINVEQCSLPDPCDSN 1800
1801 PCPANSYCSNDWDYSYSCSDPGYTGDNCTNVCDLNPCHEHOSVCTRKPSAPHYGTCCEPPN 1860
1801 PCPANSYCSNDWDYSYSCSDPGYTGDNCTNVCDLNPCHEHOSVCTRKPSAPHYGTCCEPPN 1860
1861 YLGPYCETRIIDQPCPRGMWGHPTCGPCNCDVSKGFDPCNKTSGECKENHYRPPGSPT 1920
1861 YLGPYCETRIIDQPCPRGMWGHPTCGPCNCDVSKGFDPCNKTSGECKENHYRPPGSPT 1920
1921 CLICDCYPTGSLSRVCDPEDGQCPKQVIGROCDRCNDNPAEVTTWGCEVNYDSCPRAI 1980
1921 CLICDCYPTGSLSRVCDPEDGQCPKQVIGROCDRCNDNPAEVTTWGCEVNYDSCPRAI 1980
1981 EAGIWWPRTRFGLPAAAPCPKGSFGTAVRHCDHRGMLPPNLFNCTSIITFSELKGFABRL 2040
1981 EAGIWWPRTRFGLPAAAPCPKGSFGTAVRHCDHRGMLPPNLFNCTSIITFSELKGFABRL 2040
2041 QRNESGLDSGRSQQLALLRNATQHTAGYFGSDVKVAYQLATRLLAHSTORGFLSATQ 2100
2041 QRNESGLDSGRSQQLALLRNATQHTAGYFGSDVKVAYQLATRLLAHSTORGFLSATQ 2100
2101 DVHFTENLVRVGSALLDTANKRHWELIQOTEGGTAWLLQHYEAVASALAQNNRHTYLSPP 2160
2101 DVHFTENLVRVGSALLDTANKRHWELIQOTEGGTAWLLQHYEAVASALAQNNRHTYLSPP 2160
2161 TIVTNIIVISVVRLDKGNFAGAKLPRYEALRGEOPDLETTVILPESVRETTPVVRPAG 2220
2161 TIVTNIIVISVVRLDKGNFAGAKLPRYEALRGEOPDLETTVILPESVRETTPVVRPAG 2220
2221 PGEAQEPBELARRQRHPPELSQGEAVASVIIYRTLGLLPHNYDPDKRSLRVPKRPINT 2280
2221 PGEAQEPBELARRQRHPPELSQGEAVASVIIYRTLGLLPHNYDPDKRSLRVPKRPINT 2280
2281 PWSISVHDDRELLPRALDKPVTQVFRLEETEERTKPICVFNNHSILVSGTGGWSARCE 2340
2281 PWSISVHDDRELLPRALDKPVTQVFRLEETEERTKPICVFNNHSILVSGTGGWSARCE 2340
2341 VYFRNESHVSCQCNHMTSFVLMVDSVRRENGEIIPLKTLTYVALGVTAAALLLFFFTL 2400

Db 2341 VVFNESHVSCQNHMTSAVLMDVSRNGEILPLKLTITVALGVTLAALLTFFFLTL 2400
 Qy 2401 LRILRSNOHGIRRLNTAALGAQAQLVFLGINOADLPFACTVIAILLHFLYLCFTSWALLE 2460
 Db 2401 LRILRSNOHGIRRLNTAALGAQAQLVFLGINOADLPFACTVIAILLHFLYLCFTSWALLE 2460
 Qy 2461 ALHLYRALTEVRDVTGPMRYYMLGCVGPAFITGLAVGLDPGCVGNPDFCWLSTYDTLI 2520
 Db 2461 ALHLYRALTEVRDVTGPMRYYMLGCVGPAFITGLAVGLDPGCVGNPDFCWLSTYDTLI 2520
 Qy 2521 WSPAGPVAFAVSMVFLYILAAASCAAQROGFEKKGPVSGLOPSFAVLLLLLSATWLLAL 2580
 Db 2521 WSPAGPVAFAVSMVFLYILAAASCAAQROGFEKKGPVSGLOPSFAVLLLLLSATWLLAL 2580
 Qy 2581 LSVNSDTLLFHLFATCNCIGPFIYSYVVLSEKVRKALKACSRKPSPPALTTKSTL 2640
 Db 2581 LSVNSDTLLFHLFATCNCIGPFIYSYVVLSEKVRKALKACSRKPSPPALTTKSTL 2640
 Qy 2641 TSSVNCSPYADGRLYQPYGDSAGLSHSTSRSGKSQPSYIPIFLAREESALNPGQPPGLG 2700
 Db 2641 TSSVNCSPYADGRLYQPYGDSAGLSHSTSRSGKSQPSYIPIFLAREESALNPGQPPGLG 2700
 Qy 2701 DPGSLFLEGQDQDHPDTSDDLSDQSGSYASTHSSDEEBEEREEAAPPGEQG 2760
 Db 2701 DPGSLFLEGQDQDHPDTSDDLSDQSGSYASTHSSDEEBEEREEAAPPGEQG 2760
 Qy 2761 WDSLPGFAERLPLHSTPKDGGPGKAPWPGDFTTAKESGNGAPEERLRENGDALSR 2820
 Db 2761 WDSLPGFAERLPLHSTPKDGGPGKAPWPGDFTTAKESGNGAPEERLRENGDALSR 2820
 Qy 2821 EGSIGPLPGSSAQAHPKGLKKCLPTTSEKSLRLPLBQCTGSSRGSASSEGSRGPPPP 2880
 Db 2821 EGSIGPLPGSSAQAHPKGLKKCLPTTSEKSLRLPLBQCTGSSRGSASSEGSRGPPPP 2880
 Qy 2881 RPPRQSLQEOQLNGVMPFIAMSIKAGTVDEDSGSEFLFFNFLLH 2923
 Db 2881 RPPRQSLQEOQLNGVMPFIAMSIKAGTVDEDSGSEFLFFNFLLH 2923

RESULT 2

US-09-916-849A-3
 ; Sequence 3, Application US/09916849A
 ; Publication No. US2003008934A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Bostein, et al.
 ; TITLE OF INVENTION: Basal Markers in Breast Cancer and Related Reagents
 ; TITLE OF INVENTION: Uses Thereof
 ; FILE REFERENCE: 2002950-0024
 ; CURRENT APPLICATION NUMBER: US/09/916,849A
 ; CURRENT FILING DATE: 2001-07-26
 ; NUMBER OF SEQ ID NOS: 15
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 3
 ; LENGTH: 2923
 ; TYPE: PRN
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Cadherin EGF
 ; OTHER INFORMATION: LAG Seven Pass G-Type Receptor 2
 US-09-916-849A-3

Query Match 100.0%; Score 2923; DB 10; Length 2923;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 MRSATGVPPLTPPPPLLLLLLLLLLLPPPLLDQVQPCRSLSRSGSGGACAPMGWLCPS 60
 Db 1 MRSATGVPPLTPPPPLLLLLLLLLLLPPPLLDQVQPCRSLSRSGSGGACAPMGWLCPS 60
 Qy 61 SASNLWYTSRCRDAAGTGLTGHVPHDGLRWCPSESAHPLPAPGCPWSCRLLIG 120
 Db 61 SASNLWYTSRCRDAAGTGLTGHVPHDGLRWCPSESAHPLPAPGCPWSCRLLIG 120

Qy 121 GHLSPOGKLTLPBEPHCLKAPRLRCQSCKLAQAQGLRAGERSPEESLGGRRKRNVTAPQ 180
 Db 121 GHLSPOGKLTLPBEPHCLKAPRLRCQSCKLAQAQGLRAGERSPEESLGGRRKRNVTAPQ 180
 Qy 181 POPSYQATVPENOPAGTPVASLRAIDPDEGEAGRLVETMDALPDSRSNQPFSLDPVTGA 240
 Db 181 POPSYQATVPENOPAGTPVASLRAIDPDEGEAGRLVETMDALPDSRSNQPFSLDPVTGA 240
 Qy 241 VTTAEELDRETKSTHVFRVTAQDHGMPRRSALATLTILVTDTNDHDPVFEQOEYKESLRE 300
 Db 241 VTTAEELDRETKSTHVFRVTAQDHGMPRRSALATLTILVTDTNDHDPVFEQOEYKESLRE 300
 Qy 301 NLEVGVEVLTVRATDGDAPNNANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPVREEV 360
 Db 301 NLEVGVEVLTVRATDGDAPNNANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPVREEV 360
 Qy 361 ESYQLTVEASDOGRDPPGRSTTAAVFLSVEDDNDNAPOFSEKRYVVOVREDDVTPGAPVLR 420
 Db 361 ESYQLTVEASDOGRDPPGRSTTAAVFLSVEDDNDNAPOFSEKRYVVOVREDDVTPGAPVLR 420
 Qy 421 VTASDRDKGSNAVVHYISIMSGNARGQFYLDATQTCALDVVSPLDYETTKETTLRVAQDGG 480
 Db 421 VTASDRDKGSNAVVHYISIMSGNARGQFYLDATQTCALDVVSPLDYETTKETTLRVAQDGG 480
 Qy 481 RPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLESVPLGLYLHLVQAIDADAGDNARL 540
 Db 481 RPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLESVPLGLYLHLVQAIDADAGDNARL 540
 Qy 541 EYRLAGVGHDPPTTINNGTGWISVAEELDREVDVFPYSGVEARDHGTALASASVTV 600
 Db 541 EYRLAGVGHDPPTTINNGTGWISVAEELDREVDVFPYSGVEARDHGTALASASVTV 600
 Qy 601 LDVNDNNPTFTQPEYTVRLNEDAAVGTSSVTVSAVDRDAHSVITVQITSGNTRNFSITS 660
 Db 601 LDVNDNNPTFTQPEYTVRLNEDAAVGTSSVTVSAVDRDAHSVITVQITSGNTRNFSITS 660
 Qy 661 QSGGLVSLALPLDYKLERQYVLAATASDGTRODTAQIIVVNTDANTHRPFQSSHVTN 720
 Db 661 QSGGLVSLALPLDYKLERQYVLAATASDGTRODTAQIIVVNTDANTHRPFQSSHVTN 720
 Qy 721 VNEDRPAGTTVLLISATDEDTGENARITYFMEDSIPOFRIDADTGAVTQAELEDYEDQVS 780
 Db 721 VNEDRPAGTTVLLISATDEDTGENARITYFMEDSIPOFRIDADTGAVTQAELEDYEDQVS 780
 Qy 781 YTLAITARDNGIPKSDTTLLEILVNDVNDNAPQLRDSYQGSVYEDVPPFTSVLQISAT 840
 Db 781 YTLAITARDNGIPKSDTTLLEILVNDVNDNAPQLRDSYQGSVYEDVPPFTSVLQISAT 840
 Qy 841 DRDSGLNGRVFTYFQGGDDGDDGFIVESTSGIVTTLRLRDRENVAAQYVLRAYAVDKGMP 900
 Db 841 DRDSGLNGRVFTYFQGGDDGDDGFIVESTSGIVTTLRLRDRENVAAQYVLRAYAVDKGMP 900
 Qy 901 ARTEMEVTVTVLDVNDNPPVFEQDEFDVFEENSPIGLAVARVATATDDEGTNAQIMYQI 960
 Db 901 ARTEMEVTVTVLDVNDNPPVFEQDEFDVFEENSPIGLAVARVATATDDEGTNAQIMYQI 960
 Qy 961 VEGNIPVFOQLDIFSGELTALVDLYEDRPPYVLIQATSAPLVSRAVTHVRLLDNDNP 1020
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 Db 1021 PVLGNFELFNNTNRSSSPFGGAIGRVPAHDPOIDSLTSYSPFERGNELSVLVNLASTG 1080
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 Db 1081 ELKLSRALDNNRPLEATMSVLSDGHSVTAQCALRVITITDEMLTHTSITLRLEDMSPER 1140
 Qy 1141 FLSPLLGLFTQAAVATLATPPDHVVNFVNDTDPAGGHILNVSLSVQPPGPGGPPFL 1200
 Db 1141 FLSPLLGLFTQAAVATLATPPDHVVNFVNDTDPAGGHILNVSLSVQPPGPGGPPFL 1200
 Qy 1201 PSEDQLBRLYNRLSLTFAISAQRVLPFDNDNICLREPCENYMRVCVSLRFDSSAPPIASSS 1260

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Db 1201 PSEDQERLYNLSLLTAISAQVLPDDNCLREPCENVMRCVSVLRFDSSAPPTIASSS 1260
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Db 1321 EHEVARSRCRTPGVCKNGKTCVNLVGGFKDCPSGDPKPKYCVQVTRSPAHSFITP 1380
Qy 1381 RGLRQRFHTLALSFAFKERDGLLLYNGRENEKHFVALEVIQEQVQLTFSAGESSTTVS 1440
Db 1381 RGLRQRFHTLALSFAFKERDGLLLYNGRENEKHFVALEVIQEQVQLTFSAGESSTTVS 1440
Qy 1441 PFVPGVSDQWHTVQLKYNNKPLLGQTLPGQPSQKVAVTVDDGDTGVALLRFGSVLG 1500
Db 1441 PFVPGVSDQWHTVQLKYNNKPLLGQTLPGQPSQKVAVTVDDGDTGVALLRFGSVLG 1500
Qy 1501 NYSCAAQGTGGSKSLDLTGPLLGGVDPDPESFPVRMRQFVGCNRNIQVDSRHIDMAD 1560
Db 1501 NYSCAAQGTGGSKSLDLTGPLLGGVDPDPESFPVRMRQFVGCNRNIQVDSRHIDMAD 1560
Qy 1561 FIANNGTVPVCPAKKNVCDSENTCHNGTCYNQWDAFSCCEPLGFGKSCAQEMANPOHFL 1620
Db 1561 FIANNGTVPVCPAKKNVCDSENTCHNGTCYNQWDAFSCCEPLGFGKSCAQEMANPOHFL 1620
Qy 1621 GSSIVAMHGLSLPTISQWYLSLMFRTRQADGVLLQAITRGRSTITITOLREGHVMSVEGT 1680
Db 1621 GSSIVAMHGLSLPTISQWYLSLMFRTRQADGVLLQAITRGRSTITITOLREGHVMSVEGT 1680
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Db 1681 GLQASSLRLEPGRANDGWHQAOLALGASGPGHAILSPDYGOORAEGLNLPRLHGLHS 1740
Qy 1741 NITVGGTIPGAGVARGFRCLQGVRSVDTPEGVNSLDPSHGESINVEQCSLPDPCDSN 1800
Db 1741 NITVGGTIPGAGVARGFRCLQGVRSVDTPEGVNSLDPSHGESINVEQCSLPDPCDSN 1800
Qy 1801 PCPANSYCSNDWDSYSCSDPGYGGNCTVNDLNPCEHQSVCVTRKPSAPHGYTCRCPN 1860
Db 1801 PCPANSYCSNDWDSYSCSDPGYGGNCTVNDLNPCEHQSVCVTRKPSAPHGYTCRCPN 1860
Qy 1861 YLGPYCESTRIDQPCPRGWWGHTCGPCNCDVSKGFPDCKNTSGECKENHYRPPGSP 1920
Db 1861 YLGPYCESTRIDQPCPRGWWGHTCGPCNCDVSKGFPDCKNTSGECKENHYRPPGSP 1920
Qy 1921 CLLCDCYPTGSLRVCDPEDGQCPCKPGVIGRQCDRCDNPFPAEVTITNGCEVNYDSCPAI 1980
Db 1921 CLLCDCYPTGSLRVCDPEDGQCPCKPGVIGRQCDRCDNPFPAEVTITNGCEVNYDSCPAI 1980
Qy 1981 EAGIWWPRTFGLPAAAPCPKGSFGTAVRHCDHRGWLPNLNFNCSTITFSELKGFABRL 2040
Db 1981 EAGIWWPRTFGLPAAAPCPKGSFGTAVRHCDHRGWLPNLNFNCSTITFSELKGFABRL 2040
Qy 2041 QRNESGLDSRSQOALLRNATQHTAGYFSDVKVAYLATLLAHESVQRFGLSATQ 2100
Db 2041 QRNESGLDSRSQOALLRNATQHTAGYFSDVKVAYLATLLAHESVQRFGLSATQ 2100
Qy 2101 DVHFTENLLRVGSLALDTANKRWELLQOTEGGTAMLLQHYEAYASALQNMHTYLSPP 2160
Db 2101 DVHFTENLLRVGSLALDTANKRWELLQOTEGGTAMLLQHYEAYASALQNMHTYLSPP 2160
Qy 2161 TIVTPNIVISVRLDKGNFAGAKLPRYEALRGBOPPDLETTVILPSVFRETPPVVRPAG 2220
Db 2161 TIVTPNIVISVRLDKGNFAGAKLPRYEALRGBOPPDLETTVILPSVFRETPPVVRPAG 2220
Qy 2221 PGEAQEPEELARRORRHEPILSQEAVASVIIYRTLAGLLPHNYDPDKRSIRVPRPIINT 2280
Db 2221 PGEAQEPEELARRORRHEPILSQEAVASVIIYRTLAGLLPHNYDPDKRSIRVPRPIINT 2280
Qy 2281 PVWSISVHDDBELLPALDKPVTQVFRLLTEERTKPICVFNWHSILVSGTGWSARGCE 2340

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Db 2281 PVWSISVHDDBELLPALDKPVTQVFRLLTEERTKPICVFNWHSILVSGTGWSARGCE 2340
Qy 2341 VVFNEHSVCOQHMTSFVAVLMDVSRRENGEILPLAKTLTVVAGVTLAALLTFFFTL 2400
Db 2341 VVFNEHSVCOQHMTSFVAVLMDVSRRENGEILPLAKTLTVVAGVTLAALLTFFFTL 2400
Qy 2401 LRILRSNOHGIRRNLTAAAGLAQLVFLGINQADLPACTVIAILLHFLYLCFSWALLE 2460
Db 2401 LRILRSNOHGIRRNLTAAAGLAQLVFLGINQADLPACTVIAILLHFLYLCFSWALLE 2460
Qy 2461 ALHLYRALTEVRDVTNTPMRFYMLGWPAPITGLAVGLDPEGYNPDPCWLSIYDTLI 2520
Db 2461 ALHLYRALTEVRDVTNTPMRFYMLGWPAPITGLAVGLDPEGYNPDPCWLSIYDTLI 2520
Qy 2521 WSPAGPVAFVMSVFLYLAARASCAARQGRPKGPVSGLOQSPFAVLLLSATWLLAL 2580
Db 2521 WSPAGPVAFVMSVFLYLAARASCAARQGRPKGPVSGLOQSPFAVLLLSATWLLAL 2580
Qy 2581 LSVNSDITLLPHYLFCATNCIQPFIFLSVYVLSKEVRKALKACSRKPSDPALTTKSTL 2640
Db 2581 LSVNSDITLLPHYLFCATNCIQPFIFLSVYVLSKEVRKALKACSRKPSDPALTTKSTL 2640
Qy 2641 TSSYNCSPIYADGRLYQPYGDSAGLSHSTRSGKSQPSYIPFLLRRESALNPGQPPGLG 2700
Db 2641 TSSYNCSPIYADGRLYQPYGDSAGLSHSTRSGKSQPSYIPFLLRRESALNPGQPPGLG 2700
Qy 2701 DPGSLFLEGQDQHDPTDSDLSLEDDQSGSVASTHSDSEEEEEEEEEAAFPGEQ 2760
Db 2701 DPGSLFLEGQDQHDPTDSDLSLEDDQSGSVASTHSDSEEEEEEEEEAAFPGEQ 2760
Qy 2761 WDSLLPGCAERLPLHSTPKDGGPGKAPWPGDFTTAKESSNGAPAEERLRENGDALSR 2820
Db 2761 WDSLLPGCAERLPLHSTPKDGGPGKAPWPGDFTTAKESSNGAPAEERLRENGDALSR 2820
Qy 2821 EGSGLPLPGSSAQPHKGILKKCLPTISEKSLRLRPLEOCTGSSRSSSASEGSRGPPPP 2880
Db 2821 EGSGLPLPGSSAQPHKGILKKCLPTISEKSLRLRPLEOCTGSSRSSSASEGSRGPPPP 2880
Qy 2881 RPPRQSLQEOQLNGVMPMIAMSIKAGTVDEDSGSEFLFNFPLH 2923
Db 2881 RPPRQSLQEOQLNGVMPMIAMSIKAGTVDEDSGSEFLFNFPLH 2923

RESULT 3
US-10-225-567A-524
; Sequence 324, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: Lifespan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burner, Glenna C.
; APPLICANT: Roush, Christine L.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 524:
; LENGTH: 2923
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-225-567A-524

Query Match 100.0%; Score 2923; DB 14; Length 2923;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRSPATGVPLTPPPPPPLLLLLLLLLPPPLLDQGVGCPKRSLSGRGSSGACAPMWLCP 60
Db 1 MRSPATGVPLTPPPPPPLLLLLLLLLPPPLLDQGVGCPKRSLSGRGSSGACAPMWLCP 60

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Qy 61 SASNLWYTSRCR DAGTGLTGHLPVHHGGLRVWCPESEAHIPLPAPGCGPWSCLLIG 120
Db |||||
Qy 61 SASNLWYTSRCR DAGTGLTGHLPVHHGGLRVWCPESEAHIPLPAPGCGPWSCLLIG 120
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Qy 121 GHLSPQKLTLPPEHPCCLKAPRLCQSKLAQCLRAGESPRESLGGREKRNNTAPQ 180
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Qy 121 GHLSPQKLTLPPEHPCCLKAPRLCQSKLAQCLRAGESPRESLGGREKRNNTAPQ 180
Db |||||
Qy 181 FQPSYQATVPENOPAGTVPASLRAIDPDEGEAGRLTYTMDALFDSRSNQFFSLDPVTGA 240
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Qy 181 FQPSYQATVPENOPAGTVPASLRAIDPDEGEAGRLTYTMDALFDSRSNQFFSLDPVTGA 240
Db |||||
Qy 241 VTTAEELDRETKSTHFRVTAQDHGMPRRSALATITLVTDTNDHDPVFEQOEKESLRE 300
Db |||||
Qy 241 VTTAEELDRETKSTHFRVTAQDHGMPRRSALATITLVTDTNDHDPVFEQOEKESLRE 300
Db |||||
Qy 301 NLEVGYEVLTVRATDGAAPPNANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPVDREEV 360
Db |||||
Qy 301 NLEVGYEVLTVRATDGAAPPNANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPVDREEV 360
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Qy 361 ESYQLTVEASDQGRDPGRSTTAAVFLSVEDDNDNAPOFSEKRYVVOVREDVTGAPVLR 420
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Qy 361 ESYQLTVEASDQGRDPGRSTTAAVFLSVEDDNDNAPOFSEKRYVVOVREDVTGAPVLR 420
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Qy 421 VTASDRDKGSNAVHYISMSNGARQFYLDATQALDVVSPLDYETTKYTLRVRAQDGG 480
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Qy 421 VTASDRDKGSNAVHYISMSNGARQFYLDATQALDVVSPLDYETTKYTLRVRAQDGG 480
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Qy 481 RPPLSNVSGLTVTOVLINDNAPITFVSTPFOATVLESVPLGYLVHVOAIDADAGDNARL 540
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Qy 1141 FLSPLLLGFIQAVATLATTPDPHVVVFNVRDQTDAPGGHILNVLSVSGVQPGPGGPPFL 1200
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Qy 1561 NYSCAAQGTQGGSKSLDLTGPLLLGGVDDL PESFPVPMRQFVGCNRNLQVDSRHIDMAD 1560
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Qy 1861 YLGPYCETRIDQPCPRGMWGHPTCGPCNCDVSKGFDPCNKTSGECHCKENHYRPPGSPT 1920
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Qy 1921 CLLCDCYPTGSLSRVCDPEDGQCPKQVIGROCDNCPAEVTTNGCEVNYDSCPRAI 1980
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Qy 1981 EAGIWWPRTFGLPAAAPCPKSGSFGTAVRHCDHRGMLPPNLFNCTSI TFSSELKFABRL 2040
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Qy 2221 PGEAQEPEELARRQRRHPELSQGEAVASVIIYRTLAGLLPHNYDPDKRSLRVKRPPIINT 2280
Db |||||

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Qy 2641 TSSVNCPSPVADGRLYOPYGDSAGSLHSTSRSGKSPSYIPFLLRESALNPGQPPGLG 2700
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Qy 2821 EGSGLPLPGSSAOPHKGIKKCLPTISEKSLRLPLEQCTGSSRGSSASGSGRGPPP 2880
Db 2821 EGSGLPLPGSSAOPHKGIKKCLPTISEKSLRLPLEQCTGSSRGSSASGSGRGPPP 2880
Qy 2881 RPPRQSLQQLGQVMPFIAMSIKAGTVDEDSGSEFLFFNFHLH 2923
Db 2881 RPPRQSLQQLGQVMPFIAMSIKAGTVDEDSGSEFLFFNFHLH 2923

RESULT 4

US-10-174-677-29
; Sequence 29, Application US/10174677
; Publication No. US20030190704A1
; GENERAL INFORMATION:
; APPLICANT: Xie, Ting
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANCHORING STEM CELLS IN A MICROENVIR
; FILE REFERENCE: 40716(IP-012)
; CURRENT APPLICATION NUMBER: US/10/174, 677
; CURRENT FILING DATE: 2002-06-19
; NUMBER OF SEQ ID NOS: 117
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 29
; LENGTH: 2923
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-174-677-29

Query Match 100.0%; Score 2923; DB 14; Length 2923;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1 MRSPATGVLPPTPPPPPLLLLLLLLLPPPLLDGQVGPCRSIGSRGSSGACAPMWLCPS 60

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Db 121 GHLSPQGGKLTLPBEPHCLKAPRLRCQSKLAQAQAGLRAGERSPEESLGRRKRNVNTAPQ 180
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Db 301 NLEVGYEVLTVRATDGDAPPNNANILYRLLEGSGGSPSEVEFIDPRSGVIRTRGVPDREEV 360
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2221 PGEAQEBELARRQRHPELSQGEAVASVIYRTLAGLLPHNYDDPKRSLRVPKRPINT 2280
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2881 RPPRQSLQBLQNGVMPMIAMSIKAGTVDEDSGSEFLFFNFH 2923

RESULT 5

US-10-120-801-53
; Sequence 53, Application US/10120801
; Publication No. US20030203843A1
; GENERAL INFORMATION:
; APPLICANT: Pena, Carol
; APPLICANT: Guo, Xiaojia
; APPLICANT: Shimkets, Richard
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly
; APPLICANT: Mehraban, Fuad
; APPLICANT: Topper, James N.
; APPLICANT: Malyankar, Uriel
; APPLICANT: Wasserman, Scott
; APPLICANT: Edinger, Shlomit
; APPLICANT: Smithson, Glennda
; APPLICANT: Gunther, Erik
; APPLICANT: Komuves, Laszlo
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-340
; CURRENT APPLICATION NUMBER: US/10/120,801
; CURRENT FILING DATE: 2002-04-11
; PRIOR APPLICATION NUMBER: 60/285748
; PRIOR FILING DATE: 2001-04-23

Db 1801 PCPANSYCSNDWDSYSCSDPGYGDNCNTVCDLNPCEBHQSVCTRKPSAPHGYTCECPN 1860
 Qy 1861 YLGPYCETRIDQPCRGWGHPTCGPCNCDVSKGDFDPCNKTSGBCHCKENHYRPPGSPT 1920
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 Db 1921 CLLCDYPTGSLSRVCDPEDGQCPCKPGVIGRQCDNDPFAVTTNGCEVNYDCSPRAI 1980
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 Db 1981 EAGIWPTRFGLPAAAPCPKSGFCTAVRHCDHRGWLPPNLFNCTSTTFSELKGFABRL 2040
 Qy 2041 QRNESGLDSGRSQALALLRNATQHTAGYFGSDVKVAYQLATRLLAHSTORGFLSATQ 2100
 Db 2041 QRNESGLDSGRSQALALLRNATQHTAGYFGSDVKVAYQLATRLLAHSTORGFLSATQ 2100
 Qy 2101 DVHFTENLRVGSALLDTANKRHWELIOOTEGGTAWLLQHYEAVASALQANRHTYLSPP 2160
 Db 2101 DVHFTENLRVGSALLDTANKRHWELIOOTEGGTAWLLQHYEAVASALQANRHTYLSPP 2160
 Qy 2161 TIVTPNIVISVVRDLKGNFAGAKPRYEALRGEQPDLETTVILPESVFRETPPVVRPAG 2220
 Db 2161 TIVTPNIVISVVRDLKGNFAGAKPRYEALRGEQPDLETTVILPESVFRETPPVVRPAG 2220
 Qy 2221 PGEAQPELARRQRHPPELSQGEAVASVLIYRTLAGLLPHNYDPDKSLRVPKRPINT 2280
 Db 2221 PGEAQPELARRQRHPPELSQGEAVASVLIYRTLAGLLPHNYDPDKSLRVPKRPINT 2280
 Qy 2281 PVVISVHDDRELLPRALDKVTVQFRLLEETKPKICVFNWHSILVSGTGWGARGCE 2340
 Db 2281 PVVISVHDDRELLPRALDKVTVQFRLLEETKPKICVFNWHSILVSGTGWGARGCE 2340
 Qy 2341 VVFNESHVSQCCHNMTSFAVLMVDSRRENGEILPKLTITVALGVTLAALLLFFFTL 2400
 Db 2341 VVFNESHVSQCCHNMTSFAVLMVDSRRENGEILPKLTITVALGVTLAALLLFFFTL 2400
 Qy 2401 LRILRSNHQIRRNLTAAALGLAQLVFLIGINQADLPFACTVAILLHPYLCITFSWALLE 2460
 Db 2401 LRILRSNHQIRRNLTAAALGLAQLVFLIGINQADLPFACTVAILLHPYLCITFSWALLE 2460
 Qy 2461 ALHLYRALTEVRDVTGMRVYMLGWGVPFAITGLAVGLDPEGVGNPDFCWLSIYDTLI 2520
 Db 2461 ALHLYRALTEVRDVTGMRVYMLGWGVPFAITGLAVGLDPEGVGNPDFCWLSIYDTLI 2520
 Qy 2521 WSFAGPAPAVMSVFLYILAAASCAAOQGFKKGPVSGLOPSFAVILLLSATWLLAL 2580
 Db 2521 WSFAGPAPAVMSVFLYILAAASCAAOQGFKKGPVSGLOPSFAVILLLSATWLLAL 2580
 Qy 2581 LSVNSDTLLPHYLFCATNCIQGPFIFLSYVVLSEKVRKALKACSRKPSDPALTTKSTL 2640
 Db 2581 LSVNSDTLLPHYLFCATNCIQGPFIFLSYVVLSEKVRKALKACSRKPSDPALTTKSTL 2640
 Qy 2641 TSSVNCSPYADGRLYQPYGDSAGSLHSTRSGKSQSPYIPFLIRBSALNPGQPPGLG 2700
 Db 2641 TSSVNCSPYADGRLYQPYGDSAGSLHSTRSGKSQSPYIPFLIRBSALNPGQPPGLG 2700
 Qy 2701 DPGSLFLGQDQDQDPTDSDSLSDLDQSGSVASTHSSDSEEEEEEAEAPGEOG 2760
 Db 2701 DPGSLFLGQDQDQDPTDSDSLSDLDQSGSVASTHSSDSEEEEEEAEAPGEOG 2760
 Qy 2761 WDSLGLPGAERLPLHSTPKDGGPGKAPWPGDFTAGKSSGNGAPERLRENGDALSR 2820
 Db 2761 WDSLGLPGAERLPLHSTPKDGGPGKAPWPGDFTAGKSSGNGAPERLRENGDALSR 2820
 Qy 2821 EGSGLPIPGSSAQPHKGLIKKCLPTISEKSSLLRLPLEQCTGSSRGSSASESGRGGPPP 2880
 Db 2821 EGSGLPIPGSSAQPHKGLIKKCLPTISEKSSLLRLPLEQCTGSSRGSSASESGRGGPPP 2880
 Qy 2881 RPPRQSLQOLNGVMPIMSIAKAGTVDEDSGSEFLFFNPLH 2923
 Db 2881 RPPRQSLQOLNGVMPIMSIAKAGTVDEDSGSEFLFFNPLH 2923

RESULT 6

US-10-292-798-932
 ; Sequence 932, Application US/10292798
 ; Publication No. US20030235833A1
 ; GENERAL INFORMATION:
 ; APPLICANT: SUWA, MAKIKO
 ; APPLICANT: ASAI, KIYOSHI
 ; APPLICANT: AKIYAMA, YUTAKA
 ; APPLICANT: ABURATANI, HIROYUKI
 ; TITLE OF INVENTION: GUANOSINE TRIPHOSPHATE-BINDING PROTEIN COUPLED RECEPTORS
 ; FILE REFERENCE: 084335/166
 ; CURRENT APPLICATION NUMBER: US/10/292,798
 ; CURRENT FILING DATE: 2002-11-13
 ; PRIOR APPLICATION NUMBER: 10/017,161
 ; PRIOR FILING DATE: 2001-12-18
 ; PRIOR APPLICATION NUMBER: JP 2001-246789
 ; PRIOR FILING DATE: 2001-06-18
 ; NUMBER OF SEQ ID NOS: 2070
 ; SOFTWARE: Patent In Ver. 2.1
 ; SEQ ID NO 932
 ; LENGTH: 2923
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-292-798-932

Query Match 100.0%; Score 2923; DB 15; Length 2923;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRSPTATGVPPTPPPPPLLLLLLLLLPPPLLDGQVGPCRSLGSRGSSGACAPMGWLCP 60
 Db 1 MRSPTATGVPPTPPPPPLLLLLLLLLPPPLLDGQVGPCRSLGSRGSSGACAPMGWLCP 60
 Qy 61 SASNLWLYTSRCRDAGTGLTGHVPHDGLRVWCPESEAHILPLPAPGCGPMSCLLIG 120
 Db 61 SASNLWLYTSRCRDAGTGLTGHVPHDGLRVWCPESEAHILPLPAPGCGPMSCLLIG 120
 Qy 121 GHLSPOQKLTLPESHPCLKAPRLCQSKLAQAPGLRAGERSPESLGRKRNNVNTAPQ 180
 Db 121 GHLSPOQKLTLPESHPCLKAPRLCQSKLAQAPGLRAGERSPESLGRKRNNVNTAPQ 180
 Qy 181 FQPPSYQATVPENQAGTTPVASLRAIDPDEGEAGRLTYMDALFDSRSNQFFSLDPVTGA 240
 Db 181 FQPPSYQATVPENQAGTTPVASLRAIDPDEGEAGRLTYMDALFDSRSNQFFSLDPVTGA 240
 Qy 241 VTTAEELDRKTSHTVFRVTAQDHGMPRRSALATLITLVTDTNDHDPVFEQOEYKESLRE 300
 Db 241 VTTAEELDRKTSHTVFRVTAQDHGMPRRSALATLITLVTDTNDHDPVFEQOEYKESLRE 300
 Qy 301 NLEVGVEVLTVRATDGDAPPNANILYRLLEGSGGSPSEVFIEDPRSGVIRTRGPVDREEV 360
 Db 301 NLEVGVEVLTVRATDGDAPPNANILYRLLEGSGGSPSEVFIEDPRSGVIRTRGPVDREEV 360
 Qy 361 ESYQLTVEASDQGRDGPGRSTTAAVFLSVEDDNDNAPQFSEKRYVQVREDDVTPGAPVLR 420
 Db 361 ESYQLTVEASDQGRDGPGRSTTAAVFLSVEDDNDNAPQFSEKRYVQVREDDVTPGAPVLR 420
 Qy 421 VTASDRDKGNNAVHYHYSIMSGNARGQFYDLAQTCALDVVSPLDYETTKETTLRVAQDGG 480
 Db 421 VTASDRDKGNNAVHYHYSIMSGNARGQFYDLAQTCALDVVSPLDYETTKETTLRVAQDGG 480
 Qy 481 RPPLSNVSGLVTVQVLDINDONAPIFVSTPQATVLESVPLGLVHLVQAIADADAGDNARL 540
 Db 481 RPPLSNVSGLVTVQVLDINDONAPIFVSTPQATVLESVPLGLVHLVQAIADADAGDNARL 540
 Qy 541 EYRLAGVGHDFPPTINNGTGMISVAEELDREEDVDFYSGVEARDHGTGTPALTASASVTV 600
 Db 541 EYRLAGVGHDFPPTINNGTGMISVAEELDREEDVDFYSGVEARDHGTGTPALTASASVTV 600
 Qy 601 LDVNDNNPTTQPEYTVRLNEDAAVGTSVVTVSVAVDRAHSAVITYQITSGNTRNRFSTTS 660
 Db 601 LDVNDNNPTTQPEYTVRLNEDAAVGTSVVTVSVAVDRAHSAVITYQITSGNTRNRFSTTS 660

Db 601 LDVNDNNPTFTQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVITYQITSGNTRNRPSTIS 660
Qy 661 QSGGGLVSLALPLDYLKLEROYVLAVTASDCGTRODTAQIIVNVTDANTHRPVFOSSHYYTN 720
Db 661 QSGGGLVSLALPLDYLKLEROYVLAVTASDCGTRODTAQIIVNVTDANTHRPVFOSSHYYTN 720
Qy 721 VNEDRPAGTIVLISATDEDTGENARITYPMEBSIQFRIDADTGAIVTTQAEILDYEDQVS 780
Db 721 VNEDRPAGTIVLISATDEDTGENARITYPMEBSIQFRIDADTGAIVTTQAEILDYEDQVS 780
Qy 781 YTLAITARDNGIPKQSDTTTLEILVNDVNDNAPOFLRDSYQGSVYEDVPPFTSVLQISAT 840
Db 781 YTLAITARDNGIPKQSDTTTLEILVNDVNDNAPOFLRDSYQGSVYEDVPPFTSVLQISAT 840
Qy 841 DRDSGLNGRVYFTFOGDDGDGDFIVESTSGIVRTLRRLDRENVQVYLRAVADKGMPP 900
Db 841 DRDSGLNGRVYFTFOGDDGDGDFIVESTSGIVRTLRRLDRENVQVYLRAVADKGMPP 900
Qy 901 ARTPMEVTVTVLDVNDNPPVFEODEFDVFEENSPIGLAVARTATDPDEGTNAQIMYOI 960
Db 901 ARTPMEVTVTVLDVNDNPPVFEODEFDVFEENSPIGLAVARTATDPDEGTNAQIMYOI 960
Qy 961 VEGNIPEVFQLDIPSGELTALVDLYEDRPEYVLVIQATSAPLVSRATVHVRLLDRNDP 1020
Db 961 VEGNIPEVFQLDIPSGELTALVDLYEDRPEYVLVIQATSAPLVSRATVHVRLLDRNDP 1020
Qy 1021 PVLGNPEILFNYYNTRSSFPGGAIGRVPAPHDPIIDSLSITYFERGNELSVLVLLNASTG 1080
Db 1021 PVLGNPEILFNYYNTRSSFPGGAIGRVPAPHDPIIDSLSITYFERGNELSVLVLLNASTG 1080
Qy 1081 ELKLSRALDNNRPLEATMSVLSDGVHSTVTAQCALRVITITDRLMTHSTITLRLEDMSPER 1140
Db 1081 ELKLSRALDNNRPLEATMSVLSDGVHSTVTAQCALRVITITDRLMTHSTITLRLEDMSPER 1140
Qy 1141 FLSPLLGLFIQAAVATLATPDDHVNVENVQDTPDAPGCHILNVSLSGVPPGPGGPPFL 1200
Db 1141 FLSPLLGLFIQAAVATLATPDDHVNVENVQDTPDAPGCHILNVSLSGVPPGPGGPPFL 1200
Qy 1201 PSEDLQRLYLNRSLLTALSAQORVLPDDNICUREPCENTMRCVSVLRFDSSAPPTASSS 1260
Db 1201 PSEDLQRLYLNRSLLTALSAQORVLPDDNICUREPCENTMRCVSVLRFDSSAPPTASSS 1260
Qy 1261 VLFPIHPVGLRCRCPGFTGDCETEVDLCVSRPCPHGRCKRREGGVTCLCRDGYTG 1320
Db 1261 VLFPIHPVGLRCRCPGFTGDCETEVDLCVSRPCPHGRCKRREGGVTCLCRDGYTG 1320
Qy 1321 EHCEVSARSGRCTPGVCKNGTCTVNLVGVGFKDCPSGDFEKPVCQVTTTRSPFAHSFITF 1380
Db 1321 EHCEVSARSGRCTPGVCKNGTCTVNLVGVGFKDCPSGDFEKPVCQVTTTRSPFAHSFITF 1380
Qy 1381 RGLQRFTHTLALSFAFKERDGLLLYNGRNFNEKDFVLEBVIQOVQLTFSAGESITTVTS 1440
Db 1381 RGLQRFTHTLALSFAFKERDGLLLYNGRNFNEKDFVLEBVIQOVQLTFSAGESITTVTS 1440
Qy 1441 PFVPGVSDGQWHTVQLKYNKPLLGTLPGQPSBOKAVAVTVGDCDTGVALRFGSVLG 1500
Db 1441 PFVPGVSDGQWHTVQLKYNKPLLGTLPGQPSBOKAVAVTVGDCDTGVALRFGSVLG 1500
Qy 1501 NYSCAAQGTQGSKKSLDLTGPLLLGGVPLPESFPVVRMQFVGCMRNLQVDSRHIDMAD 1560
Db 1501 NYSCAAQGTQGSKKSLDLTGPLLLGGVPLPESFPVVRMQFVGCMRNLQVDSRHIDMAD 1560
Qy 1561 FIANGTVPGCPAKNVCDNSNTCHNGGTCTVQWMDAFSCCEPLPGFGKSCAQEWMANQHFIL 1620
Db 1561 FIANGTVPGCPAKNVCDNSNTCHNGGTCTVQWMDAFSCCEPLPGFGKSCAQEWMANQHFIL 1620
Qy 1621 GSSLVAMHGLSLPISQPWYLSLMPRTQADGVLLQAITRGSRITITTLQREGHVMLSVEGT 1680
Db 1621 GSSLVAMHGLSLPISQPWYLSLMPRTQADGVLLQAITRGSRITITTLQREGHVMLSVEGT 1680
Qy 1681 GLOASSLRLEPGRANDGDWHHAQALGASGPGHAILSFYDQOORABGNLGPRLHGLHLS 1740
Db 1681 GLOASSLRLEPGRANDGDWHHAQALGASGPGHAILSFYDQOORABGNLGPRLHGLHLS 1740

Qy 1741 NITVGGIPGAGGVARGCLQGVRVSDTPEGVNSLDPSHGESINVEQCSLPDPCDSN 1800
Db 1741 NITVGGIPGAGGVARGCLQGVRVSDTPEGVNSLDPSHGESINVEQCSLPDPCDSN 1800
Qy 1801 PCPANSYCSNDWDSDSYSCSDCGYTGDNCTNVCDLNPCEHOSVCTRKPSAPHGYTCECPNP 1860
Db 1801 PCPANSYCSNDWDSDSYSCSDCGYTGDNCTNVCDLNPCEHOSVCTRKPSAPHGYTCECPNP 1860
Qy 1861 YLGPYCETRIIDPCPRGWGHPTCGPCNCDVSKGFDPCDKNTSGECKENHYPPOSPPT 1920
Db 1861 YLGPYCETRIIDPCPRGWGHPTCGPCNCDVSKGFDPCDKNTSGECKENHYPPOSPPT 1920
Qy 1921 CLLCDCYPTGSLSRVCDPEDQCPCKPGVIGRQCDRCNDNPAEVTTNGCEVNYDSCPRAI 1980
Db 1921 CLLCDCYPTGSLSRVCDPEDQCPCKPGVIGRQCDRCNDNPAEVTTNGCEVNYDSCPRAI 1980
Qy 1981 EAGIWPRTREFGLPAAAPCPKGSFGTAVRHCDHRGMLPPNLFNCTSIITSELKGFPAERL 2040
Db 1981 EAGIWPRTREFGLPAAAPCPKGSFGTAVRHCDHRGMLPPNLFNCTSIITSELKGFPAERL 2040
Qy 2041 QRNESGLDGRSQQLALLLRNATQHTAGYFGSDVKVAYQIATRLLAHESQRGFGLSATQ 2100
Db 2041 QRNESGLDGRSQQLALLLRNATQHTAGYFGSDVKVAYQIATRLLAHESQRGFGLSATQ 2100
Qy 2101 DVHFTENLRVGSALLDTANKRHWELIQOTEGGTAWLLQHYEAYASALAQNMRHTYLSPP 2160
Db 2101 DVHFTENLRVGSALLDTANKRHWELIQOTEGGTAWLLQHYEAYASALAQNMRHTYLSPP 2160
Qy 2161 TIVTPNIVISVVRLLKGNFAGAKLPRYEALRGEOPDLETTVILPEVSFRETPTPVVRPAG 2220
Db 2161 TIVTPNIVISVVRLLKGNFAGAKLPRYEALRGEOPDLETTVILPEVSFRETPTPVVRPAG 2220
Qy 2221 PGEAQEPBELARRORRHPELSQGEAVASVIIYRTLAGLLPHNYDDPKRSLRVPKRPINT 2280
Db 2221 PGEAQEPBELARRORRHPELSQGEAVASVIIYRTLAGLLPHNYDDPKRSLRVPKRPINT 2280
Qy 2281 PVVSVSHVDDHDELLPRALDKPVTQVFLLEETERTKPICVFWNHSILVSGTGWMSARGCE 2340
Db 2281 PVVSVSHVDDHDELLPRALDKPVTQVFLLEETERTKPICVFWNHSILVSGTGWMSARGCE 2340
Qy 2341 VVFNESHVSQCQNHMTSFVILMDVSRRENCEIILPLKTLTYVALGVTLAALLLTFEFLTL 2400
Db 2341 VVFNESHVSQCQNHMTSFVILMDVSRRENCEIILPLKTLTYVALGVTLAALLLTFEFLTL 2400
Qy 2401 LRILRSNQHGIIRNLTAALGLAQLVFLLLGINQADLPFACTVIALLLHFLYLCFTSWALLE 2460
Db 2401 LRILRSNQHGIIRNLTAALGLAQLVFLLLGINQADLPFACTVIALLLHFLYLCFTSWALLE 2460
Qy 2461 ALHLRYALTEVRDVTNTGPMRFYVYMLGMVPAPITGLAVGLDPEGYGNPDFCWLISIYDTLI 2520
Db 2461 ALHLRYALTEVRDVTNTGPMRFYVYMLGMVPAPITGLAVGLDPEGYGNPDFCWLISIYDTLI 2520
Qy 2521 WSFAGPVAFVAVSMVSFVLYLAARASCAAQROGFEKKGVPVGLQPSFAVLLLSLTSATLIAL 2580
Db 2521 WSFAGPVAFVAVSMVSFVLYLAARASCAAQROGFEKKGVPVGLQPSFAVLLLSLTSATLIAL 2580
Qy 2581 LSVNSDITLLFHYLFATNCIOGPPIFLISVYVLSKEVRKALKACSRKPSPPALTTKSTL 2640
Db 2581 LSVNSDITLLFHYLFATNCIOGPPIFLISVYVLSKEVRKALKACSRKPSPPALTTKSTL 2640
Qy 2641 TSSVNCPSPYADGRLYQPVGDSAGLSHSTSRSGKSQPSYIPFLLREESALNPGQPPGLG 2700
Db 2641 TSSVNCPSPYADGRLYQPVGDSAGLSHSTSRSGKSQPSYIPFLLREESALNPGQPPGLG 2700
Qy 2701 DPGSLFLESGQQQDDPDTDSDLSLEDQSGSVASTHSSDSEEEEEEEEEEAAPGEBQ 2760
Db 2701 DPGSLFLESGQQQDDPDTDSDLSLEDQSGSVASTHSSDSEEEEEEEEEEAAPGEBQ 2760
Qy 2761 WDSLLGPGAERLPLHSTPKDGGPGKAPWPGDGTGTAKESSGNGAPEERLRENGDALSR 2820
Db 2761 WDSLLGPGAERLPLHSTPKDGGPGKAPWPGDGTGTAKESSGNGAPEERLRENGDALSR 2820

Qy 2821 EGSGLPLGSSAOPHKGILKKKCLPTISEKSSLLRLPLEOCTGSSRGSSASESGRGGPPP 2880
Db 2821 EGSGLPLGSSAOPHKGILKKKCLPTISEKSSLLRLPLEOCTGSSRGSSASESGRGGPPP 2880
Qy 2881 RPPRQSLQEQINGVMPFIAMSIKAGTVDEDSGSGSEFLFFNFILH 2923
Db 2881 RPPRQSLQEQINGVMPFIAMSIKAGTVDEDSGSGSEFLFFNFILH 2923

RESULT 7

US-10-038-854-70
; Sequence 70, Application US/10038854
; Publication No. US2004002781A1
; GENERAL INFORMATION:
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Li, Li
; APPLICANT: Wolenc, Adam R
; APPLICANT: Vernet, Corine
; APPLICANT: Eise, Andrew J
; APPLICANT: Liu, Xiaohong
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Shimkets, Richard A
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spaderna, Steven K
; APPLICANT: Gorman, Linda
; APPLICANT: Kudara, Ramesh
; APPLICANT: Patturajan, Meera
; APPLICANT: Gusev, Vladimir Y
; APPLICANT: Gangolli, Esba A
; APPLICANT: Guo, Xiaojia S
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Rastelli, Luca
; APPLICANT: Casman, Stacie J
; APPLICANT: Boldog, Ferenc
; APPLICANT: Burgess, Catherine E
; APPLICANT: Edinger, Shlomit R
; APPLICANT: Ellerman, Karen
; APPLICANT: Gunther, Erik
; APPLICANT: Smithson, Glenda
; APPLICANT: Millet, Isabelle
; APPLICANT: MacDougall, John R
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-230
; CURRENT APPLICATION NUMBER: US/10/038,854
; CURRENT FILING DATE: 2003-01-22
; PRIOR APPLICATION NUMBER: 60/258,928
; PRIOR FILING DATE: 2000-12-29
; PRIOR APPLICATION NUMBER: 60/259,415
; PRIOR FILING DATE: 2001-01-02
; PRIOR APPLICATION NUMBER: 60/259,785
; PRIOR FILING DATE: 2001-01-04
; PRIOR APPLICATION NUMBER: 60/269,814
; PRIOR FILING DATE: 2001-02-20
; PRIOR APPLICATION NUMBER: 60/279,832
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/279,833
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/279,863
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/283,889
; PRIOR FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: 60/284,447
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/286,683
; PRIOR FILING DATE: 2001-04-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 411
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 70
; LENGTH: 2923
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-038-854-70

Query Match 100.0%; Score 2923; DB 15; Length 2923;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MRSATGVPPLTPPPPLLLLLLLLLPPPLGDOVGPCESLGSRGSGGACAPMGWLCPS 60
Db 1 MRSATGVPPLTPPPPLLLLLLLLLPPPLGDOVGPCESLGSRGSGGACAPMGWLCPS 60
Qy 61 SASNLWLYTSRCRDAGTGLTGHLPVHDGLRVWCPSESAHPLPAPAGCCPWSCLLGTG 120
Db 61 SASNLWLYTSRCRDAGTGLTGHLPVHDGLRVWCPSESAHPLPAPAGCCPWSCLLGTG 120
Qy 121 GHLSPOGKLTLPBHPCLKAPRLCQSCCKLAQAPGLRAGERSPESLGGRRKRNVTAPQ 180
Db 121 GHLSPOGKLTLPBHPCLKAPRLCQSCCKLAQAPGLRAGERSPESLGGRRKRNVTAPQ 180
Qy 181 FQPPSYQATVPENOPAGTTPVASLRAIDPDEGEAGRLVYTMALFDSRSNQFFSLDPVTGA 240
Db 181 FQPPSYQATVPENOPAGTTPVASLRAIDPDEGEAGRLVYTMALFDSRSNQFFSLDPVTGA 240
Qy 241 VTTAEELDRKTSKTHFRVTAQDHGMPRRSALATLTILVTDTNDHDPVFEQOEYKESLRE 300
Db 241 VTTAEELDRKTSKTHFRVTAQDHGMPRRSALATLTILVTDTNDHDPVFEQOEYKESLRE 300
Qy 301 NLEVGVEVLTVRATDGDAPPNANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPVDRREV 360
Db 301 NLEVGVEVLTVRATDGDAPPNANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPVDRREV 360
Qy 361 ESYQLTVEASDQGRDPRSTTAAVFLSVEDDNDNAPQFSEKRYVQVREOVTPGAPVLR 420
Db 361 ESYQLTVEASDQGRDPRSTTAAVFLSVEDDNDNAPQFSEKRYVQVREOVTPGAPVLR 420
Qy 421 VTASDRDKGSAVAVHYSIMSGNARGQFYLDATGALDVSPDYETTKETYLTVRAQDGG 480
Db 421 VTASDRDKGSAVAVHYSIMSGNARGQFYLDATGALDVSPDYETTKETYLTVRAQDGG 480
Qy 481 RPPLSNVSGLVTVQVLDINDNAPIFVSTPPQATVLESVPLGLVHLVQIADADAGDNARL 540
Db 481 RPPLSNVSGLVTVQVLDINDNAPIFVSTPPQATVLESVPLGLVHLVQIADADAGDNARL 540
Qy 541 EYRLAGVGHDPPTTINNGTGWISVAEELDREVDVYFSGVEARDHGTPALTASASVTV 600
Db 541 EYRLAGVGHDPPTTINNGTGWISVAEELDREVDVYFSGVEARDHGTPALTASASVTV 600
Qy 601 LDVNDNPTTQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVITVQITSGNTRNRFSLTS 660
Db 601 LDVNDNPTTQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVITVQITSGNTRNRFSLTS 660
Qy 661 QSGGGLVSLALPLDYKLERQVLAVTASDGTQDTAQIIVNVNTDANTHRPVPFQSSHVTN 720
Db 661 QSGGGLVSLALPLDYKLERQVLAVTASDGTQDTAQIIVNVNTDANTHRPVPFQSSHVTN 720
Qy 721 VNEDRPAGTTVLLISATDEDTGENARITYFMEDSIPOFRIDADTGAVTQAELEDYEDQVS 780
Db 721 VNEDRPAGTTVLLISATDEDTGENARITYFMEDSIPOFRIDADTGAVTQAELEDYEDQVS 780
Qy 781 YTLAITARDNGIPKSDTTLVLEILLVNDVNDNAPFLRDSYQGSVVEDVPPTFSLVQISAT 840
Db 781 YTLAITARDNGIPKSDTTLVLEILLVNDVNDNAPFLRDSYQGSVVEDVPPTFSLVQISAT 840
Qy 841 DRDSGLNGRVFTYFQGGDDGDGFIVESTSGIVTTLRLRDRENVAAQVYLRAVADKGMPP 900
Db 841 DRDSGLNGRVFTYFQGGDDGDGFIVESTSGIVTTLRLRDRENVAAQVYLRAVADKGMPP 900
Qy 901 ARTPMETVTVLVDVNDNPPVFEQDEPDVFEENSPIGLAVARVATATPDDEGTNAQIMTQI 960
Db 901 ARTPMETVTVLVDVNDNPPVFEQDEPDVFEENSPIGLAVARVATATPDDEGTNAQIMTQI 960
Qy 961 VEGNIPEVFOLDIFSGELTALVDLDYEDRPEYVLVQIATSAPLVSRATVHVLLDRDNDP 1020
Db 961 VEGNIPEVFOLDIFSGELTALVDLDYEDRPEYVLVQIATSAPLVSRATVHVLLDRDNDP 1020

Qy 1021 PVLGNFEILFNNYVTRNSSFFPGGAIGRVPAHDPDISDSLTYSFERNELSLVLLNASTG 1080
Db 1021 PVLGNFEILFNNYVTRNSSFFPGGAIGRVPAHDPDISDSLTYSFERNELSLVLLNASTG 1080
Qy 1081 ELKLSRALDNNRPLEA1MSVLSDGVHSVTAQCALRVITITDMLTHSITLRLDMSPER 1140
Db 1081 ELKLSRALDNNRPLEA1MSVLSDGVHSVTAQCALRVITITDMLTHSITLRLDMSPER 1140
Qy 1141 FLSPLLGLF1QAVAAATLTPDHVVVFNVCORDTAPGCHILNLSVSGPPGPGPPFL 1200
Db 1141 FLSPLLGLF1QAVAAATLTPDHVVVFNVCORDTAPGCHILNLSVSGPPGPGPPFL 1200
Qy 1201 PSEDQRLYLNSRLTAISAQRLVLPDDNICLREPCENVMRCVSLRFDSSAPFIASS 1260
Db 1201 PSEDQRLYLNSRLTAISAQRLVLPDDNICLREPCENVMRCVSLRFDSSAPFIASS 1260
Qy 1261 VLFRPIHPVGLRCRCPPGFTGDCYETEDVLCYSRPGPHGRCSRREGGYTCLCRDGYTG 1320
Db 1261 VLFRPIHPVGLRCRCPPGFTGDCYETEDVLCYSRPGPHGRCSRREGGYTCLCRDGYTG 1320
Qy 1321 EHCEVSARSRCPTGVCNKGCTCNLLVGGFKDCPSGDEPEKYCQVTRSPAHSFITF 1380
Db 1321 EHCEVSARSRCPTGVCNKGCTCNLLVGGFKDCPSGDEPEKYCQVTRSPAHSFITF 1380
Qy 1381 RGLRQRFHTLALSFAKERDGLLLYNGRNEKHDFALEVIQEOVLTFSSAGESITTVS 1440
Db 1381 RGLRQRFHTLALSFAKERDGLLLYNGRNEKHDFALEVIQEOVLTFSSAGESITTVS 1440
Qy 1441 PFVPGVSDGOWHTVQLYKYNKPLLGQTLPGQPSQKVAVVTVDCGTGVALRFGSVLG 1500
Db 1441 PFVPGVSDGOWHTVQLYKYNKPLLGQTLPGQPSQKVAVVTVDCGTGVALRFGSVLG 1500
Qy 1501 NYSCAAQGTGSKSLDLTGLPGLLGGVPLDPSFVRMRQFVGCNRLQVDSRHDMD 1560
Db 1501 NYSCAAQGTGSKSLDLTGLPGLLGGVPLDPSFVRMRQFVGCNRLQVDSRHDMD 1560
Qy 1561 FIANNVTGCPAKNVCDSNTCHNGTCVQNDAPSCBPLGFGKSCAQEMANPOHEL 1620
Db 1561 FIANNVTGCPAKNVCDSNTCHNGTCVQNDAPSCBPLGFGKSCAQEMANPOHEL 1620
Qy 1621 GSSLVAMHGLSLPISQPMWLSLMPRTQADGVLLQAITRGRTITTLQREGHVMLSVEGT 1680
Db 1621 GSSLVAMHGLSLPISQPMWLSLMPRTQADGVLLQAITRGRTITTLQREGHVMLSVEGT 1680
Qy 1681 GLQASSLRLEPGRANDGWHHAQALCAGSGPGHAILSDYDQQRAGNIGRLHGLHS 1740
Db 1681 GLQASSLRLEPGRANDGWHHAQALCAGSGPGHAILSDYDQQRAGNIGRLHGLHS 1740
Qy 1741 NITVGGIPGAGVARGFRCLOQVRVSDTPEGVNSLDPHSGESINVEQCSLPDPCDSN 1800
Db 1741 NITVGGIPGAGVARGFRCLOQVRVSDTPEGVNSLDPHSGESINVEQCSLPDPCDSN 1800
Qy 1801 PCPANSYCSNDWDSYSCSDPGYGDNCTNVCDLNPCEHQSVCTRKPSPHGYTCPCPN 1860
Db 1801 PCPANSYCSNDWDSYSCSDPGYGDNCTNVCDLNPCEHQSVCTRKPSPHGYTCPCPN 1860
Qy 1861 YLGYCETRIDQPCRGWGHPTGCPNCNDVSKGFPDCKNTSGECHKENHYRPPGSPT 1920
Db 1861 YLGYCETRIDQPCRGWGHPTGCPNCNDVSKGFPDCKNTSGECHKENHYRPPGSPT 1920
Qy 1921 CLLCDCYPTGSLRVCDPEGQCKPGVIGRQCDRCNDPFAEVTTNGCEVNDSCPRAI 1980
Db 1921 CLLCDCYPTGSLRVCDPEGQCKPGVIGRQCDRCNDPFAEVTTNGCEVNDSCPRAI 1980
Qy 1981 EAGIWWPRTREGLPAAAPCPKSGPGTAVRHCDHERGMLPNNLNCITSIITPSELKGAERL 2040
Db 1981 EAGIWWPRTREGLPAAAPCPKSGPGTAVRHCDHERGMLPNNLNCITSIITPSELKGAERL 2040
Qy 2041 QRNESGLDSGRSQQLALLRNATQHTAGYFGSDVKVAYQALTRLLAHSTQRFGLSATQ 2100
Db 2041 QRNESGLDSGRSQQLALLRNATQHTAGYFGSDVKVAYQALTRLLAHSTQRFGLSATQ 2100
Qy 2101 DVHFTENLLRVGSALLDTANKRWELIQTEGGTAWLLQHYEAYASALAQNMRHTVLSPF 2160

Db 2101 DVHFTENLLRVGSALLDTANKRWELIQTEGGTAWLLQHYEAYASALAQNMRHTVLSPF 2160
Qy 2161 TIVTPNIVISVVRLDKGNFAGAKLPRYEALRGEOPDLETTTIVLPESVFRTEPPVVRPAG 2220
Db 2161 TIVTPNIVISVVRLDKGNFAGAKLPRYEALRGEOPDLETTTIVLPESVFRTEPPVVRPAG 2220
Qy 2221 PGEAQEPEELARRORRPELSQGEAVASVIIYRTLAGLLPHNYDPPDKRSLRVPKRPIINT 2280
Db 2221 PGEAQEPEELARRORRPELSQGEAVASVIIYRTLAGLLPHNYDPPDKRSLRVPKRPIINT 2280
Qy 2281 PWSISVHDDBELPRALDKPVTVOFRLLEETERTKPICVFWNHSILVSGTGGMSARGCE 2340
Db 2281 PWSISVHDDBELPRALDKPVTVOFRLLEETERTKPICVFWNHSILVSGTGGMSARGCE 2340
Qy 2341 VVFNESHVSQCQNHMTSFVILMDVSRRENGEILPLKTLTVVALGVTLAALLTFPELTL 2400
Db 2341 VVFNESHVSQCQNHMTSFVILMDVSRRENGEILPLKTLTVVALGVTLAALLTFPELTL 2400
Qy 2401 LRILRSNOHGIRRNLTAAALGLAQLVFLILGINQADLPEACTVIAILLHFLYLCITFSWALLE 2460
Db 2401 LRILRSNOHGIRRNLTAAALGLAQLVFLILGINQADLPEACTVIAILLHFLYLCITFSWALLE 2460
Qy 2461 ALHLYRALTEVRDVTNGPMRPFYMLGMVGPAPITGLAVGLDPEGYGNPDFCWLSIYDTLI 2520
Db 2461 ALHLYRALTEVRDVTNGPMRPFYMLGMVGPAPITGLAVGLDPEGYGNPDFCWLSIYDTLI 2520
Qy 2521 WSPAGPVAFVMSVFLYILAAASCAAQRQFKKGVSGLOPSPFAVLLLSATWLLAL 2580
Db 2521 WSPAGPVAFVMSVFLYILAAASCAAQRQFKKGVSGLOPSPFAVLLLSATWLLAL 2580
Qy 2581 LSVNSDTLLPHYLATNCIOGPFIFLSVVLSKEVRKALKACSRKPSDDPALTTKSTL 2640
Db 2581 LSVNSDTLLPHYLATNCIOGPFIFLSVVLSKEVRKALKACSRKPSDDPALTTKSTL 2640
Qy 2641 TSSYNCPSPYADGRLYQPYGDSAGLSHSTRSGKSQPSYIPFLLRSSALNPGQGPGLG 2700
Db 2641 TSSYNCPSPYADGRLYQPYGDSAGLSHSTRSGKSQPSYIPFLLRSSALNPGQGPGLG 2700
Qy 2701 DPGSLFLEGQOQHDPDSDLSLEDDQSGSVASTHSSDSEEEEEEEEEAAFPGEQ 2760
Db 2701 DPGSLFLEGQOQHDPDSDLSLEDDQSGSVASTHSSDSEEEEEEEEEAAFPGEQ 2760
Qy 2761 WDSLIGPCAERLPLHSTPKCGPGPKAPWPGDFTTAKSSGNGAPEERLRENGDALSR 2820
Db 2761 WDSLIGPCAERLPLHSTPKCGPGPKAPWPGDFTTAKSSGNGAPEERLRENGDALSR 2820
Qy 2821 EGSGLGPLSGSAQPHKGLKKKCLPTTISEKSSLLRPLEQCTGSSRGSSASESGRGGPPP 2880
Db 2821 EGSGLGPLSGSAQPHKGLKKKCLPTTISEKSSLLRPLEQCTGSSRGSSASESGRGGPPP 2880
Qy 2881 RPPPRQSLQEOQLNGVMP1AMSIKAGTVDESDSGSEFLFFNPLH 2923
Db 2881 RPPPRQSLQEOQLNGVMP1AMSIKAGTVDESDSGSEFLFFNPLH 2923

RESULT 8

US-09-788-711A-2
; Sequence 2, Application US/09788711A
; Patent No. US20020058328A1
; GENERAL INFORMATION:
; APPLICANT: Tania Tamsin Testa
; TITLE OF INVENTION: NOVEL COMPOUNDS
; FILE REFERENCE: GP-30225
; CURRENT APPLICATION NUMBER: US/09/788.711A
; CURRENT FILING DATE: 2001-02-20
; PRIOR APPLICATION NUMBER: 0004196.2
; PRIOR FILING DATE: 2000-02-19
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 2956
; TYPE: PRT

ORGANISM: HOMO SAPIENS
US-09-788-711A-2

Query Match 97.1%; Score 2837; DB 9; Length 2956;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2837; Conservative 0; Mismatches 0; Indels ~ 0; Gaps 0;

Qy	1	MRSPATGVPPLTPPPPLLLLLLLLLLLPPLLDGQVQPCRSLSRGSGGACAPMGWLCP	60
Db	1	MRSPATGVPPLTPPPPLLLLLLLLLLLPPLLDGQVQPCRSLSRGSGGACAPMGWLCP	60
Qy	61	SASNLWLTSCRCDAGTGLTHLVPHDGLRWCPCESEAHPLPAPGPCWPCSLGIG	120
Db	61	SASNLWLTSCRCDAGTGLTHLVPHDGLRWCPCESEAHPLPAPGPCWPCSLGIG	120
Qy	121	GHLSPQGLTLPEEHPCLKAPRLRCQSKLAQAPGLRAGERSPEESLGRKRKNVNTAPQ	180
Db	121	GHLSPQGLTLPEEHPCLKAPRLRCQSKLAQAPGLRAGERSPEESLGRKRKNVNTAPQ	180
Qy	181	FQPPSYQATVPENOPAGTPVASLRAIDPDEGRAGRLTYMDALFDSRNQPFSLDPVTGA	240
Db	181	FQPPSYQATVPENOPAGTPVASLRAIDPDEGRAGRLTYMDALFDSRNQPFSLDPVTGA	240
Qy	241	VTTAEELDRETKSTHVRVTAQDHGMPPRSALATLTILVTDNDHDPVFEQOEKESLRE	300
Db	241	VTTAEELDRETKSTHVRVTAQDHGMPPRSALATLTILVTDNDHDPVFEQOEKESLRE	300
Qy	301	NLEVGVEVLTVRATDGDAPPNANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPVDREV	360
Db	301	NLEVGVEVLTVRATDGDAPPNANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPVDREV	360
Qy	361	ESYQLTVEASQGRDPGRSTAAVFLSVEDDNDNAPQSEKRYVYVQVREDVTPGAPVLR	420
Db	361	ESYQLTVEASQGRDPGRSTAAVFLSVEDDNDNAPQSEKRYVYVQVREDVTPGAPVLR	420
Qy	421	VTASDRDKGSNAVHYSTMSNARGQFYLDAGTGALDVVSPLDYETTKETYLRAQDGG	480
Db	421	VTASDRDKGSNAVHYSTMSNARGQFYLDAGTGALDVVSPLDYETTKETYLRAQDGG	480
Qy	481	RPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLESPLGLVYLHVAQIADADAGDNARL	540
Db	481	RPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLESPLGLVYLHVAQIADADAGDNARL	540
Qy	541	EYRLAGVGHDPFTTINNGTMSVAAELDREVDYFSGVEARDHGTPTALFASASVTV	600
Db	541	EYRLAGVGHDPFTTINNGTMSVAAELDREVDYFSGVEARDHGTPTALFASASVTV	600
Qy	601	LDVNDNPTFTQPEYTVLNEADAAGTSVTVSAVDRDAHSVITYQITSGNTRNRFSTIS	660
Db	601	LDVNDNPTFTQPEYTVLNEADAAGTSVTVSAVDRDAHSVITYQITSGNTRNRFSTIS	660
Qy	661	QSGGLVSLALPLDYKLERQVVLAVTASDGTQDQTAQIIVNVNTDANTHRPVFQSSHVTN	720
Db	661	QSGGLVSLALPLDYKLERQVVLAVTASDGTQDQTAQIIVNVNTDANTHRPVFQSSHVTN	720
Qy	721	VNEDRPAGTIVVLISATDEDTGENARITYFMEDSIPOFRIDADTCAVTTQAELEDYEQVS	780
Db	721	VNEDRPAGTIVVLISATDEDTGENARITYFMEDSIPOFRIDADTCAVTTQAELEDYEQVS	780
Qy	781	YTLAITARDNGIPQKSDTYYLEILVNDVNDNAPQFLRDSYQGVVEDVPPFTSVLQISAT	840
Db	781	YTLAITARDNGIPQKSDTYYLEILVNDVNDNAPQFLRDSYQGVVEDVPPFTSVLQISAT	840
Qy	841	DRDGLGRVFTYFQGGDGDGDFIVESTSGIVRTLRLDRENVAAQVYLRAVADKGMPP	900
Db	841	DRDGLGRVFTYFQGGDGDGDFIVESTSGIVRTLRLDRENVAAQVYLRAVADKGMPP	900
Qy	901	ARTPMEVTVTVLVDNDNPPVPEQDEFVFEENSPIGLAVARVTATDDEGTNAQIMYQI	960
Db	901	ARTPMEVTVTVLVDNDNPPVPEQDEFVFEENSPIGLAVARVTATDDEGTNAQIMYQI	960
Qy	961	VEGNIPEVFQLDIFSGLTALVDLYEDRPEYVLVIQATSAPLVSRATVHVLLDRNDNP	1020

Db	961	VEGNIPEVFQLDIFSGLTALVDLYEDRPEYVLVIQATSAPLVSRATVHVLLDRNDNP	1020
Qy	1021	PVLGNFEILFNNTNRSSSPFGGAIGRVPAHDPDISDSLTYSFPERGNELSVLVLLNASTG	1080
Db	1021	PVLGNFEILFNNTNRSSSPFGGAIGRVPAHDPDISDSLTYSFPERGNELSVLVLLNASTG	1080
Qy	1081	ELKLSRALDNNRPLEAATMSVLVSDGVHSTVTAQCALRVIIITDEMLTHSITLRLDMSPPR	1140
Db	1081	ELKLSRALDNNRPLEAATMSVLVSDGVHSTVTAQCALRVIIITDEMLTHSITLRLDMSPPR	1140
Qy	1141	FLSPLGLGFIQAVAAATLATPPDHVVVNVNQDTPAPGGHILNVLSVQPPGPGGGPPPL	1200
Db	1141	FLSPLGLGFIQAVAAATLATPPDHVVVNVNQDTPAPGGHILNVLSVQPPGPGGGPPPL	1200
Qy	1201	PSDELQERLYLNRSLTALSAQRLVLPDDNICLREPCENYMCVSVLRFDSAPPIASSS	1260
Db	1201	PSDELQERLYLNRSLTALSAQRLVLPDDNICLREPCENYMCVSVLRFDSAPPIASSS	1260
Qy	1261	VLFRPIHPVGLRCRCPPGFTGDCETEVDLICYSRPPCPGPHGRCRSREGGYTCLCRDGYTG	1320
Db	1261	VLFRPIHPVGLRCRCPPGFTGDCETEVDLICYSRPPCPGPHGRCRSREGGYTCLCRDGYTG	1320
Qy	1321	EHCEVSARSGRCTPGVCKNGGTCVNLVGGPKDCPSGDFPKPYCOVTRFPFAHSFITF	1380
Db	1321	EHCEVSARSGRCTPGVCKNGGTCVNLVGGPKDCPSGDFPKPYCOVTRFPFAHSFITF	1380
Qy	1381	RGLQRHFHTLALSFATKERDGLLLYNGRFNKEKDFVALEVIQEQVLTFSAGESTTTVS	1440
Db	1381	RGLQRHFHTLALSFATKERDGLLLYNGRFNKEKDFVALEVIQEQVLTFSAGESTTTVS	1440
Qy	1441	PFVPGVSDGQWHTVQLKYNKPLLGOTGLPQGSSEQKVAVTVVDGCDTGVALRFGSVLG	1500
Db	1441	PFVPGVSDGQWHTVQLKYNKPLLGOTGLPQGSSEQKVAVTVVDGCDTGVALRFGSVLG	1500
Qy	1501	NYSCAAQGTQGSKKSLDLTGPLLLGGVPLDPEPSPVEMROFVGCNRNLQVDSRHIDNAD	1560
Db	1501	NYSCAAQGTQGSKKSLDLTGPLLLGGVPLDPEPSPVEMROFVGCNRNLQVDSRHIDNAD	1560
Qy	1561	FIANNGTVPGPCAKKNCVDSNTCHNGGTCVNWDAFSCCEPLFGFGKSCAQMANNPOHFL	1620
Db	1561	FIANNGTVPGPCAKKNCVDSNTCHNGGTCVNWDAFSCCEPLFGFGKSCAQMANNPOHFL	1620
Qy	1621	GSSILVAVHGLSLPISQPYWLSLMFRTROADGVLLQAIITRGRSTITLQLRBGHVMLSVBGT	1680
Db	1621	GSSILVAVHGLSLPISQPYWLSLMFRTROADGVLLQAIITRGRSTITLQLRBGHVMLSVBGT	1680
Qy	1681	GLQASRLRLEPRANDGDWHHAQALGASGCPGHAILSFYDYGQORAEGLNGLRLHGLHLS	1740
Db	1681	GLQASRLRLEPRANDGDWHHAQALGASGCPGHAILSFYDYGQORAEGLNGLRLHGLHLS	1740
Qy	1741	NITVGGIPGPAGGVARGFRGCLQGVVSDTPEGVNSLDPHSGESINVRQGCSLPDPCCSN	1800
Db	1741	NITVGGIPGPAGGVARGFRGCLQGVVSDTPEGVNSLDPHSGESINVRQGCSLPDPCCSN	1800
Qy	1801	PCPANSYCSNDWDSYSCSDPYGNDCTNVCNCPCHSHQSVCTRKPSAPHGYTCECPN	1860
Db	1801	PCPANSYCSNDWDSYSCSDPYGNDCTNVCNCPCHSHQSVCTRKPSAPHGYTCECPN	1860
Qy	1861	YLGPYCETRIDQPCPRGWGHPTGCPNCVSKGFPDPCNKTSGECHCKENHYRPPGSP	1920
Db	1861	YLGPYCETRIDQPCPRGWGHPTGCPNCVSKGFPDPCNKTSGECHCKENHYRPPGSP	1920
Qy	1921	CLLDCYPTGSLSVCDPEDGQCPKPGVIGRQCDRCNDPFAEVTNNGCEVNYDSCPRAI	1980
Db	1921	CLLDCYPTGSLSVCDPEDGQCPKPGVIGRQCDRCNDPFAEVTNNGCEVNYDSCPRAI	1980
Qy	1981	EAGIWWPRTRFGLPAAAPCPKGSFGTAVRHCHDEHRGMLPPNLFNCTSTITFSELKGFABRL	2040
Db	1981	EAGIWWPRTRFGLPAAAPCPKGSFGTAVRHCHDEHRGMLPPNLFNCTSTITFSELKGFABRL	2040
Qy	2041	QRNESGLDGRSQQLALLRNATQHTAGYFGSDVKVAYQLATRLLAHSTQRGFLSATQ	2100
Db	2041	QRNESGLDGRSQQLALLRNATQHTAGYFGSDVKVAYQLATRLLAHSTQRGFLSATQ	2100

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Qy 2101 DVHPTENLLVGSALLDTANKRWELIQQTEGCTAMLLQHYEAYASALAAQNRHTYLSPP 2160
Db 2101 DVHPTENLLVGSALLDTANKRWELIQQTEGCTAMLLQHYEAYASALAAQNRHTYLSPP 2160
Qy 2161 TIVTPNIVISVRLDKGNFAGAKLPRYEALRGQPPDLETTVILPESVFRETPPVVRPAG 2220
Db 2161 TIVTPNIVISVRLDKGNFAGAKLPRYEALRGQPPDLETTVILPESVFRETPPVVRPAG 2220
Qy 2221 PGEAQEPEELARRQRHPELISQGEAVASVIIYRTLAGLPHNTYDPPKRSIRVPRPIINT 2280
Db 2221 PGEAQEPEELARRQRHPELISQGEAVASVIIYRTLAGLPHNTYDPPKRSIRVPRPIINT 2280
Qy 2281 PVVSIHVHDEELLPRALDKPVTVOFELLETERTKPICVFNHNSILVSGTGWSARGCE 2340
Db 2281 PVVSIHVHDEELLPRALDKPVTVOFELLETERTKPICVFNHNSILVSGTGWSARGCE 2340
Qy 2341 VVFNESHVSCQCNHMTSFVALMDVSRRENGEILPLKLTYYVALGVTLAALLITPFFLT 2400
Db 2341 VVFNESHVSCQCNHMTSFVALMDVSRRENGEILPLKLTYYVALGVTLAALLITPFFLT 2400
Qy 2401 LRILRSNOHGIRRLTAALGLAQVLFLGINQADLPFACTVIAILLHFLYLCFTFSWALLE 2460
Db 2401 LRILRSNOHGIRRLTAALGLAQVLFLGINQADLPFACTVIAILLHFLYLCFTFSWALLE 2460
Qy 2461 ALHLRYALTEVRDVTGPMRFYMLGHWGVPAFITGLAVGLDPKGYGNPFCWLSIYDTLI 2520
Db 2461 ALHLRYALTEVRDVTGPMRFYMLGHWGVPAFITGLAVGLDPKGYGNPFCWLSIYDTLI 2520
Qy 2521 WSPAGPVAFVMSVFLYILAAASCAAQKGPKGVPVSGLOPSPFAVILLISATWLLAL 2580
Db 2521 WSPAGPVAFVMSVFLYILAAASCAAQKGPKGVPVSGLOPSPFAVILLISATWLLAL 2580
Qy 2581 LSVNSDTLLPHYLFCATCNCIQGPFIFLSYVVLSEVKALKACSRKPSDPALTTKSTL 2640
Db 2581 LSVNSDTLLPHYLFCATCNCIQGPFIFLSYVVLSEVKALKACSRKPSDPALTTKSTL 2640
Qy 2641 TSSVNCPSYADGRLYQPGDSAGSLHSTRSGKSQPSYIPFLIRRESALNPGQPGGLG 2700
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Qy 2701 DPGSLFLEGQDQDHPDTSDDLSDSDSGSVASTHSSDEEBEEREEAAFPGEQG 2760
Db 2701 DPGSLFLEGQDQDHPDTSDDLSDSDSGSVASTHSSDEEBEEREEAAFPGEQG 2760
Qy 2761 WDSLLGFGAERLPLHSTPKDGGPGKAPWPGDFTTAKESSGNGAPERLRNGDALSR 2820
Db 2761 WDSLLGFGAERLPLHSTPKDGGPGKAPWPGDFTTAKESSGNGAPERLRNGDALSR 2820
Qy 2821 EGSIGPLPGSSAQPHKG 2837
Db 2821 EGSIGPLPGSSAQPHKG 2837

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RESULT 9

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US-10-276-774-1774
; Sequence 1774, Application US/10276774
; Publication No. US20040053245A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; APPLICANT: Tang, Y, Tom et al
; TITLE OF INVENTION: No. US20040053245A1el Nucleic Acids and Polypeptides
; FILE REFERENCE: 21272-030
; CURRENT APPLICATION NUMBER: US/10/276,774
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: 09/560,875
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: 09/496,914
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 2700
; SOFTWARE: Custom
; SEQ ID NO 1774
; LENGTH: 2560

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; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(2560)
; OTHER INFORMATION: Xaa = any amino acid or nothing
US-10-276-774-1774

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Query Match 69.0%; Score 2018; DB 15; Length 2560;
 Best Local Similarity 99.9%; Pred. No. 0;
 Matches 2318; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Qy 380 STTAAVFLSVEDDDNDNAPQFSEKYYVQVREDVTPGAPVLRVTASDRDKGSNAVHYISIM 439
Db 13 STTAAVFLSVEDDDNDNAPQFSEKYYVQVREDVTPGAPVLRVTASDRDKGSNAVHYISIM 72
Qy 440 SGNARGQYLDQAQTGALDVSPLDYETTKETYLRAQDQGRPPPLSNVSGLVTQVLDIN 499
Db 73 SGNARGQYLDQAQTGALDVSPLDYETTKETYLRAQDQGRPPPLSNVSGLVTQVLDIN 132
Qy 500 DNAPIFVSTPQATVLSVPLGYLVHVOATADAGDNARLEVLACVGHDFPFTINNGT 559
Db 133 DNAPIFVSTPQATVLSVPLGYLVHVOATADAGDNARLEVLACVGHDFPFTINNGT 192
Qy 560 GWISVAAELDREEDVFSFGVEARDHGTPTALTASASVSVTVLDVNDNNPTTQPEYTVRL 619
Db 193 GWISVAAELDREEDVFSFGVEARDHGTPTALTASASVSVTVLDVNDNNPTTQPEYTVRL 252
Qy 620 NEDAAVGTSVVTVSAVDRDAHSVITYQITGNTNRNRFISITSQSGGLVSLALPLDYKLER 679
Db 253 NEDAAVGTSVVTVSAVDRDAHSVITYQITGNTNRNRFISITSQSGGLVSLALPLDYKLER 312
Qy 680 QYVLAVTASDGTRODTAQIVVNTDANTHRPVFOSSHYYTVNVEDRPAQTIVLISATDE 739
Db 313 QYVLAVTASDGTRODTAQIVVNTDANTHRPVFOSSHYYTVNVEDRPAQTIVLISATDE 372
Qy 740 DTGENARITYFWEISIPQFRIDADTGAVTQAEILDYEDQVSYTLAITARONGIPQKSDTT 799
Db 373 DTGENARITYFWEISIPQFRIDADTGAVTQAEILDYEDQVSYTLAITARONGIPQKSDTT 432
Qy 800 YLEILVNDVNDNAPOFLRDSYQGSVYEDVPPTSVLQISATDRDSGLNGRVFYTFQGGDD 859
Db 433 YLEILVNDVNDNAPOFLRDSYQGSVYEDVPPTSVLQISATDRDSGLNGRVFYTFQGGDD 492
Qy 860 GDGDFIVESTSGIVRTLRRLDRENAQVYLRAVADKGMPPARTPMETVTVLVDNDNPP 919
Db 493 GDGDFIVESTSGIVRTLRRLDRENAQVYLRAVADKGMPPARTPMETVTVLVDNDNPP 552
Qy 920 VPEQDEFDFVFEENSPIGLAVARVTATDPDEGTNAQIMYQIVEGNIPEVFOLDIFSGBELT 979
Db 553 VPEQDEFDFVFEENSPIGLAVARVTATDPDEGTNAQIMYQIVEGNIPEVFOLDIFSGBELT 612
Qy 980 ALVLDLYEDRPEYVLVIQATSAPLVSRAVTVHRLDRNDNPPVLGNFILLNNVYTRNSS 1039
Db 613 ALVLDLYEDRPEYVLVIQATSAPLVSRAVTVHRLDRNDNPPVLGNFILLNNVYTRNSS 672
Qy 1040 SPFGAIGRVPAHDPIISDSLITYSPERGNELSLVLLNASTGELKLSRALDNNRPLEATMS 1099
Db 673 SPFGAIGRVPAHDPIISDSLITYSPERGNELSLVLLNASTGELKLSRALDNNRPLEATMS 732
Qy 1100 VLVSGVHSVTAQAALRVITITDEMILTHSITLRLEDMSPERFLSPLLGLFTIQAVALTAT 1159
Db 733 VLVSGVHSVTAQAALRVITITDEMILTHSITLRLEDMSPERFLSPLLGLFTIQAVALTAT 792
Qy 1160 PPDHVVFVNQDRTDAPGCHILNVLSVQPGPGGGPPFLPSEDLOBRLYLNRSLLTAT 1219
Db 793 PPDHVVFVNQDRTDAPGCHILNVLSVQPGPGGGPPFLPSEDLOBRLYLNRSLLTAT 852
Qy 1220 SAQRVLPDDNICLREPCENYMCVSVLRFDSSAPFTASSSVLRFPHPVGLRCRCPPG 1279
Db 853 SAQRVLPDDNICLREPCENYMCVSVLRFDSSAPFTASSSVLRFPHPVGLRCRCPPG 912
Qy 1280 FTGDYCETEVDLCYSRPCGPHGRCRREGGYTCLCRDGYTGCEHCEVSARSGRCTPGVCKN 1339

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Db 913 FTGDCYCEVTEVDLCYSRPCPHGRCSRREGYTCLCDRGYTGHECVSARSRGCTGVCCKN 972
Qy 1340 GGTCTVNLVGGFKCPCSGDFEKPYCQVTRTSFFPAHSFITFRGLRQRHFHTLALSPATKE 1399
Db 973 GGTCTVNLVGGFKCPCSGDFEKPYCQVTRTSFFPAHSFITFRGLRQRHFHTLALSPATKE 1032
Qy 1400 RDGLLLYNGRFEKEDFVALEVIQSQVLTFSAGESTTTVSFPVGGVSDGQHWHTVQKY 1459
Db 1033 RDGLLLYNGRFEKEDFVALEVIQSQVLTFSAGESTTTVSFPVGGVSDGQHWHTVQKY 1092
Qy 1460 YNKPILLGOTGLPQGSSEOKVAVVTVGDCDTGVALRFGSVLGNVCAAGTQGSKKSLDL 1519
Db 1093 YNKPILLGOTGLPQGSSEOKVAVVTVGDCDTGVALRFGSVLGNVCAAGTQGSKKSLDL 1152
Qy 1520 TGPLLGGVDPDLPESEFPVVRMQFVGCNRNLQVDSRHIDMADFIANNGTVPGPCAKKNVCD 1579
Db 1153 TGPLLGGVDPDLPESEFPVVRMQFVGCNRNLQVDSRHIDMADFIANNGTVPGPCAKKNVCD 1212
Qy 1580 SNTCHNGTCTVNDWDAFSCCEPLRFGGKSCAQEMANPOHFLGSSLVAMHGLSLPISQPMY 1639
Db 1213 SKTCHNGTCTVNDWDAFSCCEPLRFGGKSCAQEMANPOHFLGSSLVAMHGLSLPISQPMY 1272
Qy 1640 LSLMFRTRQADGVLLQAITRGSTITLQLRGHVMSVEGTGLQASSLRLEPRANDGDW 1699
Db 1273 LSLMFRTRQADGVLLQAITRGSTITLQLRGHVMSVEGTGLQASSLRLEPRANDGDW 1332
Qy 1700 HHAQALGASGPGHAILSFYDGOORAEGLNLPRLHGLHLSNITVGGIPGAGGVARGFR 1759
Db 1333 HHAQALGASGPGHAILSFYDGOORAEGLNLPRLHGLHLSNITVGGIPGAGGVARGFR 1392
Qy 1760 GCLQVRVSDTPPEGVNSLDPSHGESINVEQGSCLDPDCDSNCPANVCSNNDWDSYSCSC 1819
Db 1393 GCLQVRVSDTPPEGVNSLDPSHGESINVEQGSCLDPDCDSNCPANVCSNNDWDSYSCSC 1452
Qy 1820 DPGYGDCTNVCDLNPCEHOSVCTRKPSAPHYTCCEPPNYLGPYCESTRIDQPCRGW 1879
Db 1453 DPGYGDCTNVCDLNPCEHOSVCTRKPSAPHYTCCEPPNYLGPYCESTRIDQPCRGW 1512
Qy 1880 GHPTCGPCNCDVSKGFDPCNKTSGECKENHYRPPGSPCTCLDCYPTGSLRVCDE 1939
Db 1513 GHPTCGPCNCDVSKGFDPCNKTSGECKENHYRPPGSPCTCLDCYPTGSLRVCDE 1572
Qy 1940 DQCPCKPGVIGROCDRCDNPFVETVNGCEVNDYSCPRAEAGIWMVTRFGLPAAAPC 1999
Db 1573 DQCPCKPGVIGROCDRCDNPFVETVNGCEVNDYSCPRAEAGIWMVTRFGLPAAAPC 1632
Qy 2000 PKGSFGTAVRCHDEHRGWLPPNLFNCTSIITSELKGFARLQNESGLDSGSOQLALL 2059
Db 1633 PKGSFGTAVRCHDEHRGWLPPNLFNCTSIITSELKGFARLQNESGLDSGSOQLALL 1692
Qy 2060 RNATQHTAGYFGSDVKVAYQATRLLAHESQRGFGLSATQDVHFTENLLRVGSALLDTA 2119
Db 1693 RNATQHTAGYFGSDVKVAYQATRLLAHESQRGFGLSATQDVHFTENLLRVGSALLDTA 1752
Qy 2120 NKRHWELLQOTEGGTAWLLQHYEAYASALANMRHTYLSPTFTVTPNIVISVRLDKGNF 2179
Db 1753 NKRHWELLQOTEGGTAWLLQHYEAYASALANMRHTYLSPTFTVTPNIVISVRLDKGNF 1812
Qy 2180 AGAKLPRYALRGQPPDLETTVILPESVPRTPPVVRPAGGEAQEPPEELARQRHPE 2239
Db 1813 AGAKLPRYALRGQPPDLETTVILPESVPRTPPVVRPAGGEAQEPPEELARQRHPE 1872
Qy 2240 LSQGEAVASVIIYRTLAGLLPHNYDPDKRSRLRVPKRPIINTPVVISVHDDDEELLPRALD 2299
Db 1873 LSQGEAVASVIIYRTLAGLLPHNYDPDKRSRLRVPKRPIINTPVVISVHDDDEELLPRALD 1932
Qy 2300 KPVTVQFRLLEERTKPICVFWNHSILVSGTGWSARGCEVVRFNESHVSCQCNMHTSF 2359
Db 1933 KPVTVQFRLLEERTKPICVFWNHSILVSGTGWSARGCEVVRFNESHVSCQCNMHTSF 1992
Qy 2360 AVLMDVSRRENGEILPLKTLITVYALGVTLAALLTITFFFTLTLRLILRSNQHGIRNLTAAL 2419

Db 1993 AVLMDVSRRENGEILPLKTLITVYALGVTLAALLTITFFFTLTLRLILRSNQHGIRNLTAAL 2052
Qy 2420 GLAQVFLLLGGINQADLPFACITVIAILLHFLYLCFSWALLEALHLYRALTEVRDVTNGPM 2479
Db 2053 GLAQVFLLLGGINQADLPFACITVIAILLHFLYLCFSWALLEALHLYRALTEVRDVTNGPM 2112
Qy 2480 RPYMLGCVGPAFITGLAVGLDPEGYNPDCWLSIYDTLIWSPAGPVAFVMSVFLYI 2539
Db 2113 RPYMLGCVGPAFITGLAVGLDPEGYNPDCWLSIYDTLIWSPAGPVAFVMSVFLYI 2172
Qy 2540 LAARASCAAOQGGPKGKPVSGLOPSFAVLLLSATWLLALLSVNSDITLLFHYLPATCNC 2599
Db 2173 LAARASCAAOQGGPKGKPVSGLOPSFAVLLLSATWLLALLSVNSDITLLFHYLPATCNC 2232
Qy 2600 IQGPFIFLSYVVLVSKVRKALKACSRKPSDPDPALTTKSTLTSTSSYNCPSPYADGLYQPY 2659
Db 2233 IQGPFIFLSYVVLVSKVRKALKACSRKPSDPDPALTTKSTLTSTSSYNCPSPYADGLYQPY 2292
Qy 2660 GDSAGSLHSTSRSGKSQPSYIPFLLRBSALNPGQPPGLG 2700
Db 2293 GDSAGSLHSTSRSGKSQPSYIPFLLRBSALNPGQPPGLG 2333
RESULT 10
US-10-311-623-9
; Sequence 9, Application US/10311623
; Publication No. US20040023244A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.; GRIFFIN, Jennifer A.
; APPLICANT: KALLICK, Deborah A.; TRIBOULEY, Catherine M.
; APPLICANT: YUE, Henry; NGUYEN, Dannie B.
; APPLICANT: TANG, Y. Tom; LAL, Preeti G.
; APPLICANT: POLICKY, Jennifer L.; AZIMZAI, Yalda
; APPLICANT: LU, Dying Aina M.; GRAUL, Richard C.
; APPLICANT: YAO, Monique G.; BURFORD, Neil
; APPLICANT: HAFALIA, April J. A.; BAUGHN, Mariah R.
; APPLICANT: BANDMAN, Olga; ARVIZO, Chandra S.
; APPLICANT: YANG, Junning; XU, Yuming
; APPLICANT: GANDHI, Aneena R.; WARREN, Bridget A.
; APPLICANT: DING, Li; SANJANWALA, Madhusudan M.
; APPLICANT: DUGGAN, Brendan M.; LU, Yan
; TITLE OF INVENTION: RECEPTORS
; FILE REFERENCE: PF-0793 USN
; CURRENT APPLICATION NUMBER: US/10/311,623
; CURRENT FILING DATE: 2002-12-17
; PRIOR APPLICATION NUMBER: US 01/19942
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: US 60/214,027
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: US 60/228,045
; PRIOR FILING DATE: 2000-08-25
; PRIOR APPLICATION NUMBER: US 60/255,104
; PRIOR FILING DATE: 2000-12-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PERL Program
; SEQ ID NO 9
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20040023244A1 6977010CD1
US-10-311-623-9
Query Match 67.0%; Score 1958; DB 15; Length 2936;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1958; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 13 PPPPLLLLLLLLLPPPLIGDQVGCPSLGRSGSSGACAPMWLCPSSASNLWLYTSRC 72
Db 14 PPPPLLLLLLLLLPPPLIGDQVGCPSLGRSGSSGACAPMWLCPSSASNLWLYTSRC 73
Qy 73 RDAGTELTGHLVPHHDGLRVWCPESEAHILPPPAPEGCPWSCRLIGIGHLSPOGKLTLP 132

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Db      74  RDAGTETLGHVPHDGLRWCESEAHILPLPAPGCPWMSCHLLGIGHLSPOGKLTLP 133
Qy      133 BEHPCLKAPLRQCSCKLAQAPGLRAGERSPEBSLGRRKRNVNTAPQPPSPSYQATVPE 192
Db      134 BEHPCLKAPLRQCSCKLAQAPGLRAGERSPEBSLGRRKRNVNTAPQPPSPSYQATVPE 193
Qy      193 NOPAGTVASLRALDPDEGAGBLEYTMDALPDSRNQPPSLDPVTGAVTTAEELDRETK 252
Db      194 NOPAGTVASLRALDPDEGAGBLEYTMDALPDSRNQPPSLDPVTGAVTTAEELDRETK 253
Qy      253 STHVFRVTAODHGMPSRSLATILVTDNDNDHDPVEQOEYKESRENLVGVYEVLTVR 312
Db      254 STHVFRVTAODHGMPSRSLATILVTDNDNDHDPVEQOEYKESRENLVGVYEVLTVR 313
Qy      313 ATGDAPPNANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPDREVEESYQLTVEASDQ 372
Db      314 ATGDAPPNANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPDREVEESYQLTVEASDQ 373
Qy      373 GRDGPSTTTAAVFLSVEDDNDNAPQSEKRYVQVREDVTPCAPVLRVTASDRDKGNA 432
Db      374 GRDGPSTTTAAVFLSVEDDNDNAPQSEKRYVQVREDVTPCAPVLRVTASDRDKGNA 433
Qy      433 VVHYSIMSGNARGQFYLDAGTALDVVSPDYETTYETTLRVAQDGGRRPPLSNVSGLV 492
Db      434 VVHYSIMSGNARGQFYLDAGTALDVVSPDYETTYETTLRVAQDGGRRPPLSNVSGLV 493
Qy      493 VQVLINDNAPIFVSTFQATVLESVPLGYLVHVAQIDADAGNARLEYRLAGVGHDP 552
Db      494 VQVLINDNAPIFVSTFQATVLESVPLGYLVHVAQIDADAGNARLEYRLAGVGHDP 553
Qy      553 FTINNGTGWISVAELDREEDVDFSGVEARDHGTALPASVSVTVLVDNDNNFTTQ 612
Db      554 FTINNGTGWISVAELDREEDVDFSGVEARDHGTALPASVSVTVLVDNDNNFTTQ 613
Qy      613 PEYTVRLNEADAAGTSVTVSVAVDRDAHSVTITQISGNTRNRFSTTSQSGGLVSLALP 672
Db      614 PEYTVRLNEADAAGTSVTVSVAVDRDAHSVTITQISGNTRNRFSTTSQSGGLVSLALP 673
Qy      673 LDYKLERQYVLAVTASDGTQDTAQIIVNVVTDANTHRPVFQSSHYYTVNVEDRPAQTIV 732
Db      674 LDYKLERQYVLAVTASDGTQDTAQIIVNVVTDANTHRPVFQSSHYYTVNVEDRPAQTIV 733
Qy      733 LISATDEDTGENARITYFMEDSIPQFRIDAGTAVTTQAELEDYEDQVSYTLATARDNGI 792
Db      734 LISATDEDTGENARITYFMEDSIPQFRIDAGTAVTTQAELEDYEDQVSYTLATARDNGI 793
Qy      793 POKSDTTVLETLVNDVNDNAPQFLRDSVQGSVYEDVPPFTSVLQISATDRDGLNGRVFY 852
Db      794 POKSDTTVLETLVNDVNDNAPQFLRDSVQGSVYEDVPPFTSVLQISATDRDGLNGRVFY 853
Qy      853 TFQGGDDGDGDFIVESTSGIVRTLRRLDRENAQYVLRAYAVDKGMPPARTPMEVTVTL 912
Db      854 TFQGGDDGDGDFIVESTSGIVRTLRRLDRENAQYVLRAYAVDKGMPPARTPMEVTVTL 913
Qy      913 DVNDNPPVFEQDFVFEENSPIGLAVARTATDPDEGTNAQIMQIVEGNTPEVFOLD 972
Db      914 DVNDNPPVFEQDFVFEENSPIGLAVARTATDPDEGTNAQIMQIVEGNTPEVFOLD 973
Qy      973 IFSGELTALVDLDEDRPEYVLVIQATSAPLVSRATVHVRLDNDNPPVLGNFELLFNN 1032
Db      974 IFSGELTALVDLDEDRPEYVLVIQATSAPLVSRATVHVRLDNDNPPVLGNFELLFNN 1033
Qy      1033 YVTVNRSSSFPGGAIGRVPAPHDPPDISLITYSFERGNSLSVLLNASTGELKLSRALDNNR 1092
Db      1034 YVTVNRSSSFPGGAIGRVPAPHDPPDISLITYSFERGNSLSVLLNASTGELKLSRALDNNR 1093
Qy      1093 PLEAIMSVLVSDGVHSTVTAQALRVITITDMLTHSTLRLDMSPERFLSPILGLFIOA 1152
Db      1094 PLEAIMSVLVSDGVHSTVTAQALRVITITDMLTHSTLRLDMSPERFLSPILGLFIOA 1153
Qy      1153 VAATLATPPDHVVFNVDRTDAPGCHILNVSLSVGQPPGPGPPFLPSEDLOERLYLN 1212

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Db      1154 VAATLATPPDHVVFNVDRTDAPGCHILNVSLSVGQPPGPGPPFLPSEDLOERLYLN 1213
Qy      1213 RSLTALTAIAQAVLPPDDNICLREPCENYMRCSVLRDSSAPRTASSSVLFRPHTPVGGL 1272
Db      1214 RSLTALTAIAQAVLPPDDNICLREPCENYMRCSVLRDSSAPRTASSSVLFRPHTPVGGL 1273
Qy      1273 RCRPPGFTGDCYCTEVDLCYSRPCGPHGRCSRREGYTCLCRDGYTGEGHCEVSARSRC 1332
Db      1274 RCRPPGFTGDCYCTEVDLCYSRPCGPHGRCSRREGYTCLCRDGYTGEGHCEVSARSRC 1333
Qy      1333 TPGVCKNGGTCTNLLVGGFKCDPCSPGFEKPYCQVTTSPHAFSFIITFRGLRQRFHTLA 1392
Db      1334 TPGVCKNGGTCTNLLVGGFKCDPCSPGFEKPYCQVTTSPHAFSFIITFRGLRQRFHTLA 1393
Qy      1393 LSPATKERDGLLLNGRPNKXKHDFALEVOQLTFSAGESITTVSPVPGVSGDQW 1452
Db      1394 LSPATKERDGLLLNGRPNKXKHDFALEVOQLTFSAGESITTVSPVPGVSGDQW 1453
Qy      1453 HTVOLKYNYKPLLGOTGLPQGPSEKQVAVTVDCDGTGVALRFGSVLGNYSCTAAQGTQGG 1512
Db      1454 HTVOLKYNYKPLLGOTGLPQGPSEKQVAVTVDCDGTGVALRFGSVLGNYSCTAAQGTQGG 1513
Qy      1513 SKKSIDLTPGLLLGVPDLPESPFVRMRQFVGMCRNLQVDSRHIDMADFIANNGTVPGCP 1572
Db      1514 SKKSIDLTPGLLLGVPDLPESPFVRMRQFVGMCRNLQVDSRHIDMADFIANNGTVPGCP 1573
Qy      1573 AKKNVCDSENTCHNGTCTVNDADFSCPCPLGFGKSCAQEMANPOHFLGSSLVAWHGLSL 1632
Db      1574 AKKNVCDSENTCHNGTCTVNDADFSCPCPLGFGKSCAQEMANPOHFLGSSLVAWHGLSL 1633
Qy      1633 PISQSWYLSLMPFRTRQADGVLLQAITRGRSTITLQREGHVMLSVETGTQASSLRLEPG 1692
Db      1634 PISQSWYLSLMPFRTRQADGVLLQAITRGRSTITLQREGHVMLSVETGTQASSLRLEPG 1693
Qy      1693 RANDGDWHHAQALGASGPGCHAILSPDYGOORAEGLNLPRLHGLHLSNITVGGIPGPAG 1752
Db      1694 RANDGDWHHAQALGASGPGCHAILSPDYGOORAEGLNLPRLHGLHLSNITVGGIPGPAG 1753
Qy      1753 GVARGFRGLQGVRSVDTPEGVNSLDPHSGESINVEQCSLPDPCDSNPCCANSYCSNDW 1812
Db      1754 GVARGFRGLQGVRSVDTPEGVNSLDPHSGESINVEQCSLPDPCDSNPCCANSYCSNDW 1813
Qy      1813 DSYSCSDPGYVYDGNCTMVCNCPCHOSVCTRPSAPHGYTCPCPNYLGPCYETRIDQ 1872
Db      1814 DSYSCSDPGYVYDGNCTMVCNCPCHOSVCTRPSAPHGYTCPCPNYLGPCYETRIDQ 1873
Qy      1873 PCPRGMWGHPTGCGPCNCDVSKGFPDPCNKTSGECHKENHYRPPGSPCTCLLDCYPTGSL 1932
Db      1874 PCPRGMWGHPTGCGPCNCDVSKGFPDPCNKTSGECHKENHYRPPGSPCTCLLDCYPTGSL 1933
Qy      1933 SRVCDPEDGQCPKPGVIGRQCDRCNDNPAFVTTNGCE 1970
Db      1934 SRVCDPEDGQCPKPGVIGRQCDRCNDNPAFVTTNGCE 1971

```

RESULT 11

US-09-843-856-2
; Sequence 2, Application US/09843856
; Patent No. US20020034785A1

GENERAL INFORMATION:

APPLICANT: SOPPET, DANIEL R.
LI, YI
RUBEN, STEVEN M.

TITLE OF INVENTION: CALCITONIN RECEPTOR
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:

ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
STREET: 1100 NEW YORK AVENUE, NW, SUITE 600
CITY: WASHINGTON
STATE: D.C.
COUNTRY: US
ZIP: 20005-3934
COMPUTER READABLE FORM:

;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patent In Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/843,856
;; FILING DATE: 30-Apr-2001
;; CLASSIFICATION: <Unknown>
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/970,758
;; FILING DATE: <Unknown>
;; ATTORNEY/AGENT INFORMATION:
;; NAME: STEFEE, ERIC K.
;; REGISTRATION NUMBER: 36,688
;; REFERENCE/DOCKET NUMBER: 1488.0660001/EKS/KMT
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (202) 371-2600
;; TELEFAX: (202) 371-2540
;; INFORMATION FOR SEQ ID NO: 2:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 568 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-843-856-2

Query Match 18.3%; Score 534; DB 9; Length 568;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 534; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2388 LAALLTPFFTLRLRNSHGIRRNLTAAQLVFLGQINQADLPACTVIAILLH 2447
Db 33 LAALLTPFFTLRLRNSHGIRRNLTAAQLVFLGQINQADLPACTVIAILLH 92

Qy 2448 FLYLCTFSWALLEALHLYRALTEVRDVTGMPFYMLGWGVPFITGLAVGLDPEGYN 2507
Db 93 FLYLCTFSWALLEALHLYRALTEVRDVTGMPFYMLGWGVPFITGLAVGLDPEGYN 152

Qy 2508 PDFCWLSTYDYLWISFAGPVAFVMSVFLYLILAAASCAARQGFKEKGVSVGLQPSFA 2567
Db 153 PDFCWLSTYDYLWISFAGPVAFVMSVFLYLILAAASCAARQGFKEKGVSVGLQPSFA 212

Qy 2568 VLLLSATWLLALLSVNSDTLLFHYLPATNCIQGFPIFLSYVLSKEVRKALKACSRK 2627
Db 213 VLLLSATWLLALLSVNSDTLLFHYLPATNCIQGFPIFLSYVLSKEVRKALKACSRK 272

Qy 2628 PSPDPALTTKSTLTSSVNCPSFYADGRLYQPYGDSAGSLHSTSRGKSQPSYIIFLLREE 2687
Db 273 PSPDPALTTKSTLTSSVNCPSFYADGRLYQPYGDSAGSLHSTSRGKSQPSYIIFLLREE 332

Qy 2688 SALNPGQPPGLGDPGSLFLEGQDQDHPDPTSDSDLSLEDDQSGSVASTHSSDSEEEE 2747
Db 333 SALNPGQPPGLGDPGSLFLEGQDQDHPDPTSDSDLSLEDDQSGSVASTHSSDSEEEE 392

Qy 2748 EEBEAAFPQGQWDSLGLPGAEPLHSTPKDGGPGKAPWFGDFOTTAKESGNGAP 2807
Db 393 EEBEAAFPQGQWDSLGLPGAEPLHSTPKDGGPGKAPWFGDFOTTAKESGNGAP 452

Qy 2808 EERLRENGDALSRGSLGFLPGSSAOPHKGIKKKCLPTISEKSLLLPLPQCTGSSRG 2867
Db 453 EERLRENGDALSRGSLGFLPGSSAOPHKGIKKKCLPTISEKSLLLPLPQCTGSSRG 512

Qy 2868 SSASEGSRGPPPPPPRQSLQEQNLGVMPIAMSTKAGTVDEDSGSEFLFFNF 2921
Db 513 SSASEGSRGPPPPPPRQSLQEQNLGVMPIAMSTKAGTVDEDSGSEFLFFNF 566

RESULT 12
US-10-176-847-100
; Sequence 100, Application US/10176847
; Publication No. US20030068636A1
; GENERAL INFORMATION:

;; APPLICANT: Veiby, Petter Ole
;; TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR
;; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF BREAST
;; TITLE OF INVENTION: AND OVARIAN CANCER
;; FILE REFERENCE: MRI-039
;; CURRENT APPLICATION NUMBER: US/10/176,847
;; CURRENT FILING DATE: 2002-06-21
;; NUMBER OF SEQ ID NOS: 112
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 100
;; LENGTH: 565
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-10-176-847-100

Query Match 16.6%; Score 485; DB 14; Length 565;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 485; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2430 INQADLPACTVIAILLHLYLCTFSWALLEALHLYRALTEVRDVTGMPFYMLGWG 2489
Db 74 INQADLPACTVIAILLHLYLCTFSWALLEALHLYRALTEVRDVTGMPFYMLGWG 133

Qy 2490 PAFITGLAVGLDPEGYNPDFCWLSTYDYLWISFAGPVAFVMSVFLYLILAAASCAAQ 2549
Db 134 PAFITGLAVGLDPEGYNPDFCWLSTYDYLWISFAGPVAFVMSVFLYLILAAASCAAQ 193

Qy 2550 RQFKEKGVSVGLQPSFAVLLLSATWLLALLSVNSDTLLFHYLPATNCIQGFPIFLSY 2609
Db 194 RQFKEKGVSVGLQPSFAVLLLSATWLLALLSVNSDTLLFHYLPATNCIQGFPIFLSY 253

Qy 2610 VVLSKEVRKALKACSRKSPDPALTTKSTLTSSVNCPSFYADGRLYQPYGDSAGSLHST 2669
Db 254 VVLSKEVRKALKACSRKSPDPALTTKSTLTSSVNCPSFYADGRLYQPYGDSAGSLHST 313

Qy 2670 SRSKGSQPSYIIFLLRRESEALNPGQPPGLGDPGSLFLEGQDQDHPDPTSDSDLSLEDD 2729
Db 314 SRSKGSQPSYIIFLLRRESEALNPGQPPGLGDPGSLFLEGQDQDHPDPTSDSDLSLEDD 373

Qy 2730 QSGSVASTHSSDSEEEEEAAFPQEQWDSLGLPGAEPLHSTPKDGGPGKAP 2789
Db 374 QSGSVASTHSSDSEEEEEAAFPQEQWDSLGLPGAEPLHSTPKDGGPGKAP 433

Qy 2790 WPGDFGTTAKESGNGAPAEERLRENGDALSRGSLGFLPGSSAOPHKGIKKKCLPTISE 2849
Db 434 WPGDFGTTAKESGNGAPAEERLRENGDALSRGSLGFLPGSSAOPHKGIKKKCLPTISE 493

Qy 2850 KSSLRLPLPQCTGSSRGSSASGSRGPPPPRQSLQEQNLGVMPIAMSTKAGTVDE 2909
Db 494 KSSLRLPLPQCTGSSRGSSASGSRGPPPPRQSLQEQNLGVMPIAMSTKAGTVDE 553

Qy 2910 DSSGS 2914
Db 554 DSSGS 558

RESULT 13
US-10-264-237-2041
; Sequence 2041, Application US/10264237
; Publication No. US20040009491A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA131P1
; CURRENT APPLICATION NUMBER: US/10/264,237
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/16450
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: US 60/205,515
; PRIOR FILING DATE: 2000-05-19
; NUMBER OF SEQ ID NOS: 2876
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 2041


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; LENGTH: 568
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (83)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (240)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (522)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; US-10-264-237-2041

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Query Match          9.6%; Score 281; DB 15; Length 568;
Best Local Similarity 100.0%; Pred. No. 5.5e-214;
Matches 281; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2596 TCNCIQGPFIFLSYVVLKSKVRKALKACSRKPSDPDPALTTKSTLTSSYNCPSFYADGRL 2655
Db 241 TCNCIQGPFIFLSYVVLKSKVRKALKACSRKPSDPDPALTTKSTLTSSYNCPSFYADGRL 300
QY 2656 YQPYGDSAGSLHSTSRGSKQSPSYIPFLLRSEALNPGQPPGLGDPGSLFLEGQDQOHD 2715
Db 301 YQPYGDSAGSLHSTSRGSKQSPSYIPFLLRSEALNPGQPPGLGDPGSLFLEGQDQOHD 360
QY 2716 PDTDSDSLSDQSGSYASTHSSDSSEEEEEEEAAFPGEQWDSLLGPGAERLPLH 2775
Db 361 PDTDSDSLSDQSGSYASTHSSDSSEEEEEEEAAFPGEQWDSLLGPGAERLPLH 420
QY 2776 STPKDGGPGPKAPWPGDFTTAKESGNGAPAEERLRRENGDALSRGSLGPLPGSSAQPH 2835
Db 421 STPKDGGPGPKAPWPGDFTTAKESGNGAPAEERLRRENGDALSRGSLGPLPGSSAQPH 480
QY 2836 KGILKKKCLPTISEKSSLLRLPLEQCTGSSRGSSASGSRG 2876
Db 481 KGILKKKCLPTISEKSSLLRLPLEQCTGSSRGSSASGSRG 521

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RESULT 14
US-09-925-300-1299
; Sequence 1299, Application US/09925300
; Patent No. US20020151681A1
; GENERAL INFORMATION:
; APPLICANT: Craig Ruben,
; APPLICANT: Steve Ruben,
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PAL01
; CURRENT APPLICATION NUMBER: US/09/925,300
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05988
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1890
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 1299
; LENGTH: 717
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (39)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (147)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (181)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids

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; NAME/KEY: SITE
; LOCATION: (232)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (379)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (389)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (671)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; US-09-925-300-1299

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Query Match          9.6%; Score 281; DB 9; Length 717;
Best Local Similarity 100.0%; Pred. No. 6.7e-214;
Matches 281; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2596 TCNCIQGPFIFLSYVVLKSKVRKALKACSRKPSDPDPALTTKSTLTSSYNCPSFYADGRL 2655
Db 390 TCNCIQGPFIFLSYVVLKSKVRKALKACSRKPSDPDPALTTKSTLTSSYNCPSFYADGRL 449
QY 2656 YQPYGDSAGSLHSTSRGSKQSPSYIPFLLRSEALNPGQPPGLGDPGSLFLEGQDQOHD 2715
Db 450 YQPYGDSAGSLHSTSRGSKQSPSYIPFLLRSEALNPGQPPGLGDPGSLFLEGQDQOHD 509
QY 2716 PDTDSDSLSDQSGSYASTHSSDSSEEEEEEEAAFPGEQWDSLLGPGAERLPLH 2775
Db 510 PDTDSDSLSDQSGSYASTHSSDSSEEEEEEEAAFPGEQWDSLLGPGAERLPLH 569
QY 2776 STPKDGGPGPKAPWPGDFTTAKESGNGAPAEERLRRENGDALSRGSLGPLPGSSAQPH 2835
Db 570 STPKDGGPGPKAPWPGDFTTAKESGNGAPAEERLRRENGDALSRGSLGPLPGSSAQPH 629
QY 2836 KGILKKKCLPTISEKSSLLRLPLEQCTGSSRGSSASGSRG 2876
Db 630 KGILKKKCLPTISEKSSLLRLPLEQCTGSSRGSSASGSRG 670

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RESULT 15
US-10-017-161-1096
; Sequence 1096, Application US/10017161
; Publication No. US2003014368A1
; GENERAL INFORMATION:
; APPLICANT: SUWA, MAKIKO
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAMA, YUTAKA
; APPLICANT: ABURATANI, HIROYUKI
; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 084335/0152
; CURRENT APPLICATION NUMBER: US/10/017,161
; CURRENT FILING DATE: 2002-12-18
; PRIOR APPLICATION NUMBER: JP 2001/246789
; PRIOR FILING DATE: 2001-06-18
; NUMBER OF SEQ ID NOS: 2430
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 1096
; LENGTH: 646
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-017-161-1096

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Query Match          6.1%; Score 179; DB 14; Length 646;
Best Local Similarity 100.0%; Pred. No. 5.5e-133;
Matches 179; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2601 QGPFIFLSYVVLKSKVRKALKACSRKPSDPDPALTTKSTLTSSYNCPSFYADGRLYQPYG 2660
Db 221 QGPFIFLSYVVLKSKVRKALKACSRKPSDPDPALTTKSTLTSSYNCPSFYADGRLYQPYG 280
QY 2661 DSAGSLHSTSRGSKQSPSYIPFLLRSEALNPGQPPGLGDPGSLFLEGQDQOHDPTDS 2720
Db 281 DSAGSLHSTSRGSKQSPSYIPFLLRSEALNPGQPPGLGDPGSLFLEGQDQOHDPTDS 340

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Search completed: April 6, 2005, 14:33:44
Job time : 268 secs

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